BKC International
Electronics Inc.

6 Lake Street
PO Box 1436
Lawrence, MA
USA 01841

Telephone (617) 681-0392 • TeleFax (617) 681-9135 • Telex 928377

# GOLD BONDED DIODES

## TYPE 1N277

## FEATURES

**Low forward voltage drop**
—low power consumption
**Thirty years of proven reliability**
—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

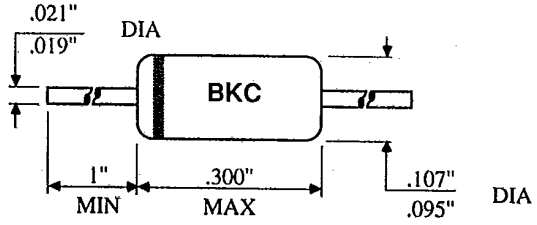
## ABSOLUTE MAXIMUM RATINGS

| | | |
|---|---|---|
| Peak Inverse Voltage | 110V | @ 25 °C |
| Peak Forward Current | 500mA | unless |
| Operating Temperature Range | -65°C to 85°C | otherwise |
| Average Power Dissipation | 80mW | specified |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min. | Max. | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1mA | 110 | | V | 25° |
| Inverse Current | Ir | 10V | | 75 | uA | 75° |
| Inverse Current | Ir | 50V | | 250 | uA | 75° |
| Forward Voltage | Vf | 100mA | | 1.0 | V | 25° |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N278

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
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Telephone (617) 681-0392
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Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

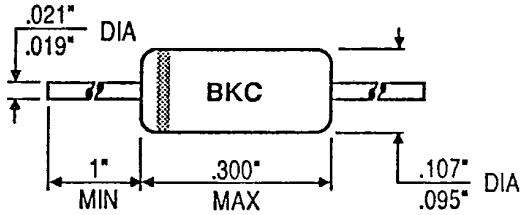
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 60 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 60 | | V | 25 °C |
| Reverse Current | Ir | 50 V | | 125 | µA | 25 °C |
| Forward Voltage | Vf | 20 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N279

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

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BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

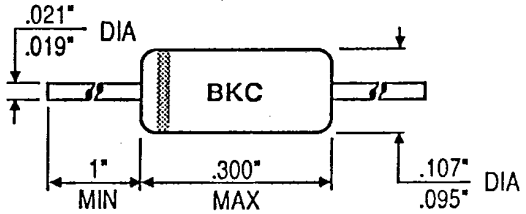
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 30 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 30 | | V | 25 °C |
| Reverse Current | Ir | 20 V | | 200 | µA | 25 °C |
| Forward Voltage | Vf | 100 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N281

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
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Telephone (617) 681-0392
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Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

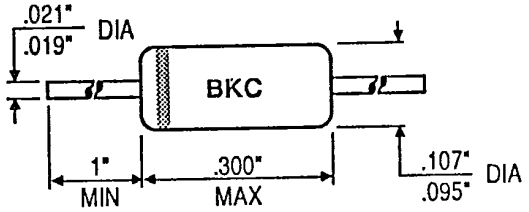
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 75 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 75 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 30 | µA | 25 °C |
| Reverse Current | Ir | 50 V | | 500 | µA | °C |
| Forward Voltage | Vf | 100 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N283

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

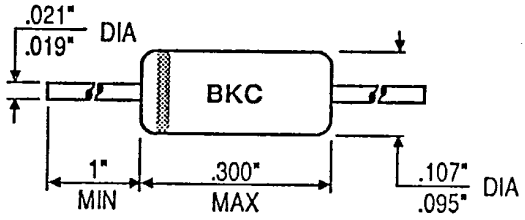
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 25 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 25 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 20 | µA | 25 °C |
| Forward Voltage | Vf | 200 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N287

T-01-07

# GOLD BONDED GERMANIUM DIODE

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PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

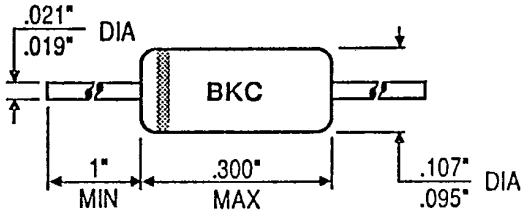
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 60 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 60 | | V | 25 °C |
| Reverse Current | Ir | 50 V | | 1500 | µA | 25 °C |
| Forward Voltage | Vf | 20 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N288

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
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## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

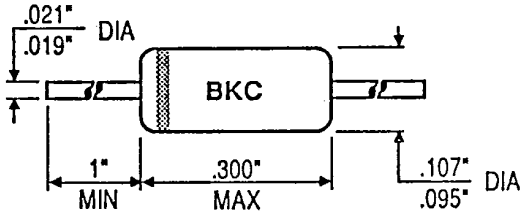
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 85 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 85 | | V | 25 °C |
| Reverse Current | Ir | 50 V | | 350 | µA | 25 °C |
| Forward Voltage | Vf | 40 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N289

T-01-07

# GOLD BONDED GERMANIUM DIODE

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## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

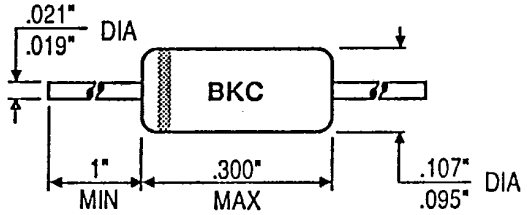
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 85 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 85 | | V | 25 °C |
| Reverse Current | Ir | 50 V | | 50 | µA | 25 °C |
| Forward Voltage | Vf | 20 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N290

T-01-07

# GOLD BONDED GERMANIUM DIODE

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Telex 928377

BKC International
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## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

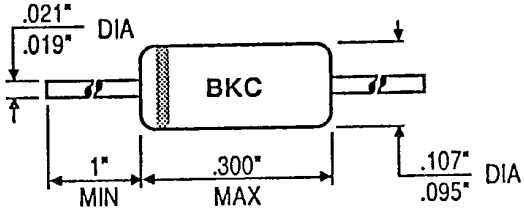
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 120 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 120 | | V | 25 °C |
| Reverse Current | Ir | 100 V | | 100 | µA | 25 °C |
| Forward Voltage | Vf | 5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N291

T-01-07

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## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

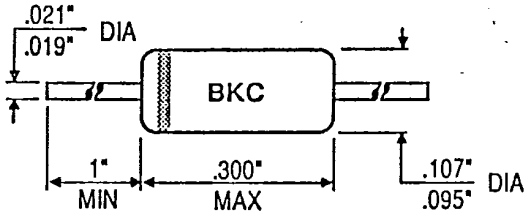
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 120 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 120 | | V | 25 °C |
| Reverse Current | Ir | 100 V | | 100 | µA | 25 °C |
| Forward Voltage | Vf | 40 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N292

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

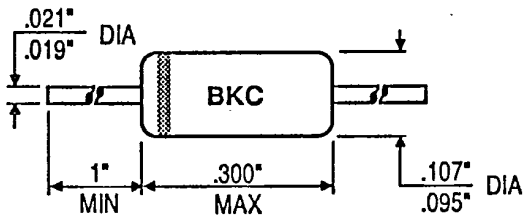
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 75 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 75 | | V | 25 °C |
| Reverse Current | Ir | 50 V | | 200 | µA | 25 °C |
| Forward Voltage | Vf | 100 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. **1N294** T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

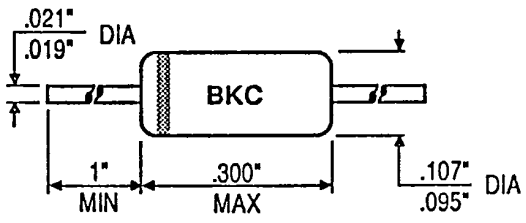
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 70 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 70 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 10 | µA | 25 °C |
| Reverse Current | Ir | 50 V | | 800 | µA | °C |
| Forward Voltage | Vf | 5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N294A

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
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Telephone (617) 681-0392
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Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

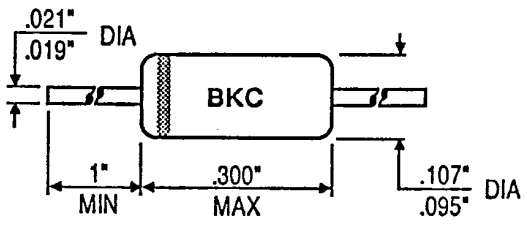
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 70 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 70 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 10 | µA | 25 °C |
| Forward Voltage | Vf | 5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N297

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

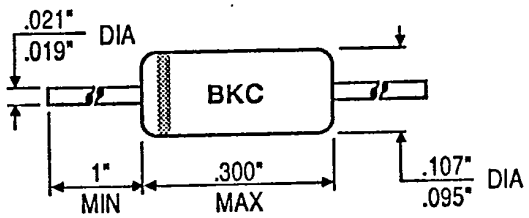
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 80 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 80 | | V | 25 °C |
| Reverse Current | Ir | 5 V | | 10 | µA | 25 °C |
| Reverse Current | Ir | 50 V | | 100 | µA | °C |
| Forward Voltage | Vf | 3.5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N297A

T-01-07

# GOLD BONDED GERMANIUM DIODE

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Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

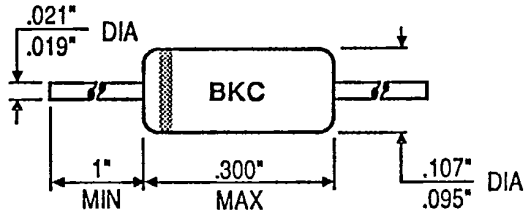
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 80 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 80 | | V | 25 °C |
| Reverse Current | Ir | 5 V | | 10 | µA | 25 °C |
| Forward Voltage | Vf | 3.5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N298

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

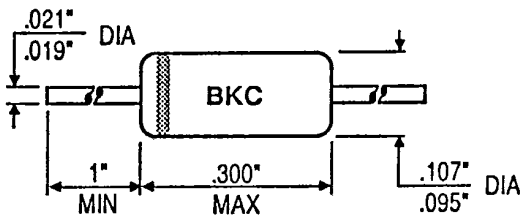
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 70 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 70 | | V | 25 °C |
| Reverse Current | Ir | 40 V | | 250 | µA | 25 °C |
| Forward Voltage | Vf | 30 mA | | 2 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N298A

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

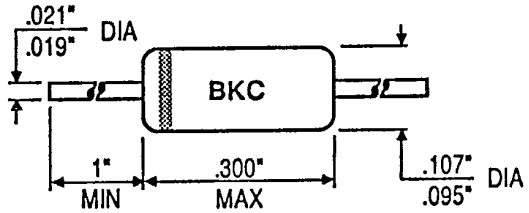
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 30 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 30 | | V | 25 °C |
| Reverse Current | Ir | 40 V | | 250 | µA | 25 °C |
| Forward Voltage | Vf | 30 mA | | 2 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

T-01-07

# Type No. 1N314

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

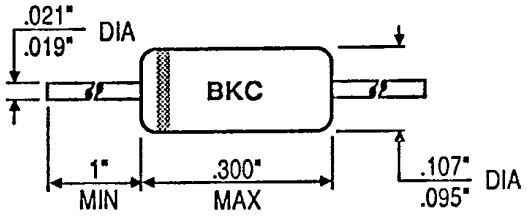
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 75 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 75 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 50 | µA | 25 °C |
| Forward Voltage | Vf | 15 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N355

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

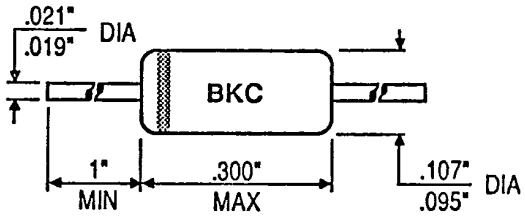
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 100 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 100 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 10 | µA | 25 °C |
| Reverse Current | Ir | 50 V | | 50 | µA | °C |
| Forward Voltage | Vf | 4 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N367

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

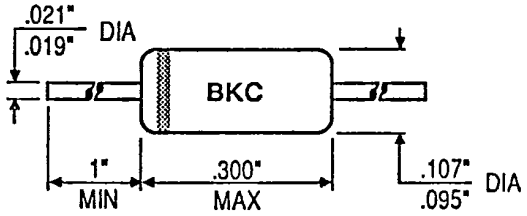
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 15 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 15 | | V | 25 °C |
| Reverse Current | Ir | V | | | µA | 25 °C |
| Forward Voltage | Vf | 20 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N417

T-03-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

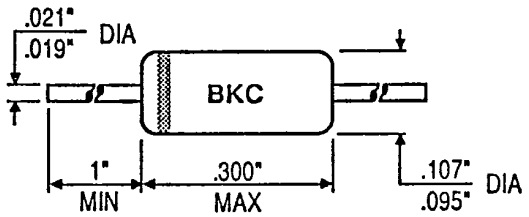
| | |
|---|---|
| Peak Inverse Voltage | 60 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 60 | | V | 25 °C |
| Reverse Current | Ir | V | | | µA | 25 °C |
| Forward Voltage | Vf | 5 mA | | 3.54 | V | 25 °C |
| Reverse Recovery | Trr | *See note* | | 300 | | |

**NOTE:** If = 5, Vr = -40, Recover to .

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

T-03-07

# Type No. 1N418

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

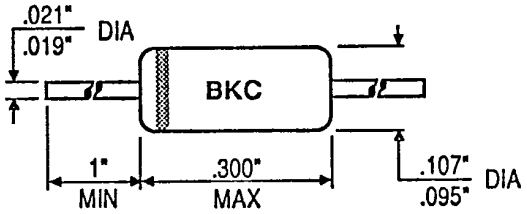
| | |
|---|---|
| Peak Inverse Voltage | 60 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 60 | | V | 25 °C |
| Reverse Current | Ir | V | | | µA | 25 °C |
| Forward Voltage | Vf | 7 mA | | 1 | V | 25 °C |
| Reverse Recovery | Trr | *See note* | | 300 | | |

**NOTE:** If = 5, Vr = -40, Recover to 25 Ω.

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N419

T-03-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

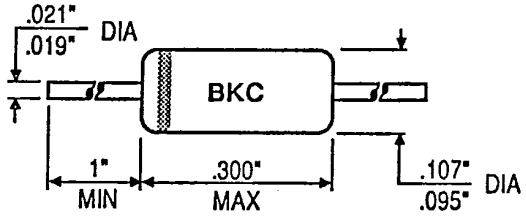
| | |
|---|---|
| Peak Inverse Voltage | 80 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 80 | | V | 25 °C |
| Reverse Current | Ir | 90 V | | 180 | µA | 25 °C |
| Forward Voltage | Vf | 125 mA | | 1 | V | 25 °C |
| Reverse Recovery | Trr | *See note* | | 300 | | |

NOTE: If = 5, Vr = -40, Recover to .

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N447

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

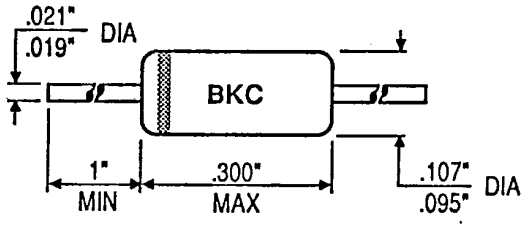
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 75 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 75 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 20 | µA | 25 °C |
| Reverse Current | Ir | 30 V | | 60 | µA | °C |
| Forward Voltage | Vf | 25 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N448

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

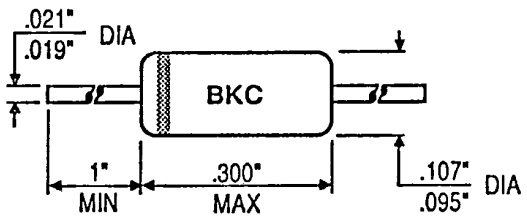
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 120 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 120 | | V | 25 °C |
| Reverse Current | Ir | 30 V | | 30 | µA | 25 °C |
| Forward Voltage | Vf | 25 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N449

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

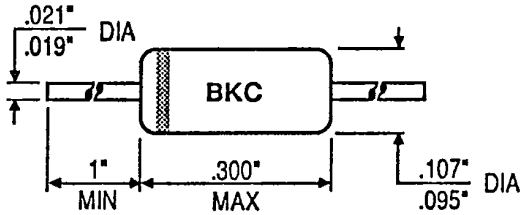
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 50 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 50 | | V | 25 °C |
| Reverse Current | Ir | 30 V | | 30 | µA | 25 °C |
| Forward Voltage | Vf | 50 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N450

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

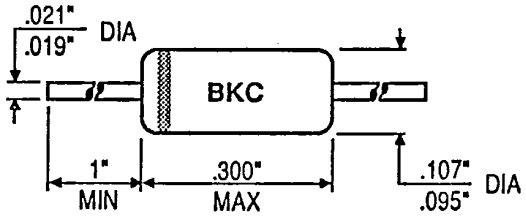
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 120 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 120 | | V | 25 °C |
| Reverse Current | Ir | 30 V | | 30 | µA | 25 °C |
| Reverse Current | Ir | 100 V | | 100 | µA | °C |
| Forward Voltage | Vf | 50 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N451

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

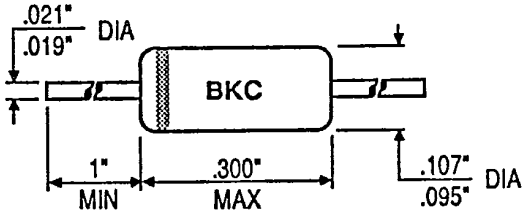
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 170 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 170 | | V | 25 °C |
| Reverse Current | Ir | 150 V | | 150 | µA | 25 °C |
| Forward Voltage | Vf | 50 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N452

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

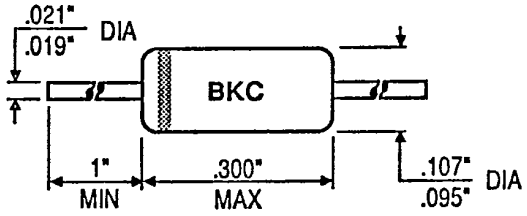
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 50 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 50 | | V | 25 °C |
| Reverse Current | Ir | 30 V | | 30 | µA | 25 °C |
| Forward Voltage | Vf | 100 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N453

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

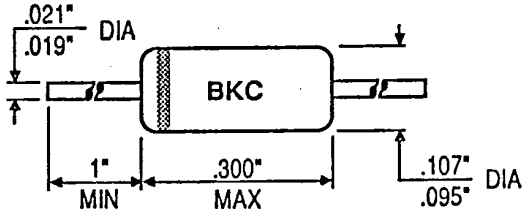
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 120 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 120 | | V | 25 °C |
| Reverse Current | Ir | 100 V | | 100 | µA | 25 °C |
| Forward Voltage | Vf | 100 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

T-01-07

# Type No. 1N454

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

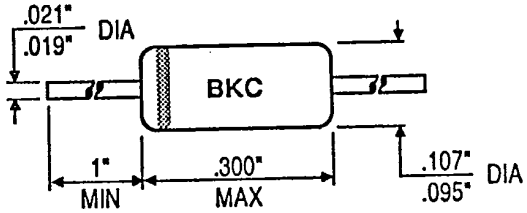
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 75 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 75 | | V | 25 °C |
| Reverse Current | Ir | 50 V | | 50 | µA | 25 °C |
| Forward Voltage | Vf | 200 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N455

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

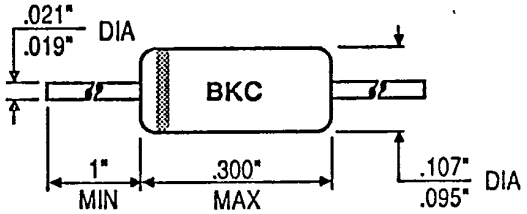
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 50 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 50 | | V | 25 °C |
| Reverse Current | Ir | 30 V | | 30 | µA | 25 °C |
| Forward Voltage | Vf | 300 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N476

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

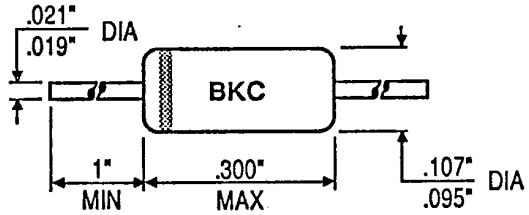
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 90 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 90 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 11 | µA | 25 °C |
| Reverse Current | Ir | 10 V | | 60 | µA | 60 °C |
| Forward Voltage | Vf | 2.5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N477

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

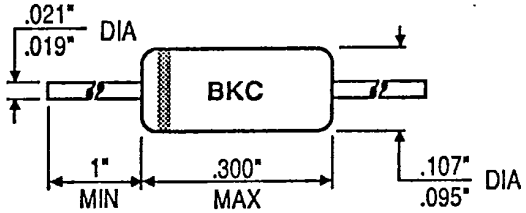
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 90 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 90 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 11 | µA | 25 °C |
| Reverse Current | Ir | 10 V | | 60 | µA | 60 °C |
| Forward Voltage | Vf | 2.5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N478

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

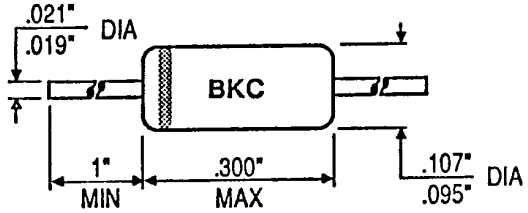
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 100 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 100 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 7 | µA | 25 °C |
| Forward Voltage | Vf | 5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N479

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

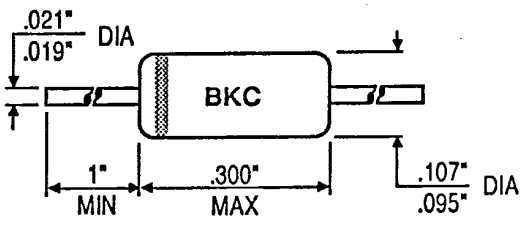
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 90 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 90 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 7 | µA | 25 °C |
| Forward Voltage | Vf | 5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

T-01-07

# Type No. 1N480

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

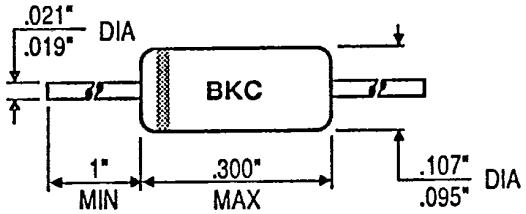
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 60 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 60 | | V | 25 °C |
| Reverse Current | Ir | 50 V | | 125 | µA | 25 °C |
| Forward Voltage | Vf | 5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N490

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

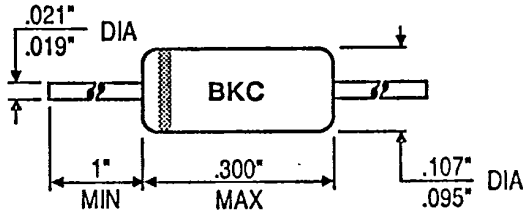
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 90 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 90 | | V | 25 °C |
| Reverse Current | Ir | 50 V | | 250 | µA | 25 °C |
| Forward Voltage | Vf | 5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N497

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

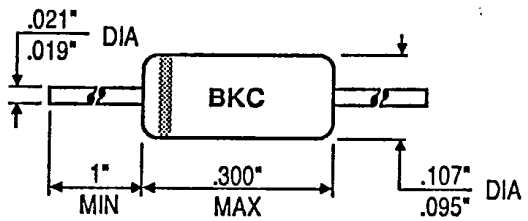
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 30 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 30 | | V | 25 °C |
| Reverse Current | Ir | 20 V | | 20 | µA | 25 °C |
| Forward Voltage | Vf | 100 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N498

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

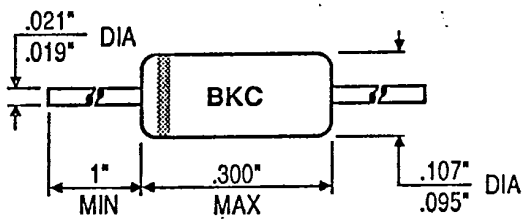
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 60 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 60 | | V | 25 °C |
| Reverse Current | Ir | 40 V | | 25 | µA | 25 °C |
| Forward Voltage | Vf | 100 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N499

T-03-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

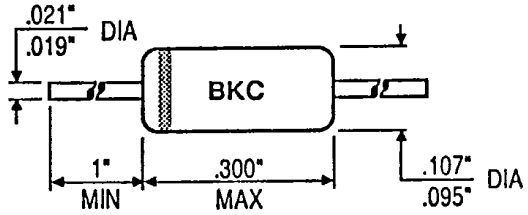
| | |
|---|---|
| Peak Inverse Voltage | 75 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 75 | | V | 25 °C |
| Reverse Current | Ir | 50 V | | 30 | µA | 25 °C |
| Forward Voltage | Vf | 100 mA | | 1 | V | 25 °C |
| Reverse Recovery | Trr | *See note* | | 300 | | |

NOTE: If = 5, Vr = -40, Recover to .

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N500

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

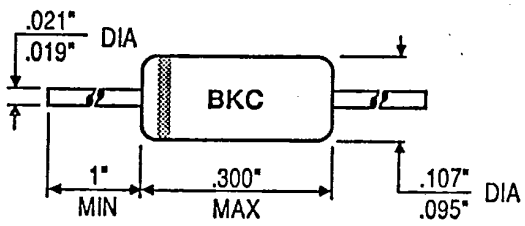
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 80 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 80 | | V | 25 °C |
| Reverse Current | Ir | 60 V | | 40 | µA | 25 °C |
| Forward Voltage | Vf | 100 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N501

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

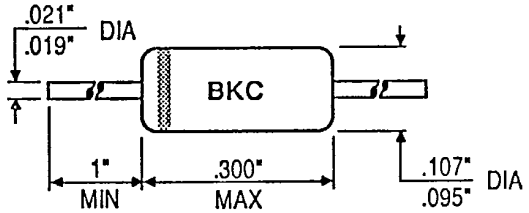
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 100 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 100 | | V | 25 °C |
| Reverse Current | Ir | 80 V | | 40 | µA | 25 °C |
| Forward Voltage | Vf | 100 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

T-01-07

# Type No. 1N502

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

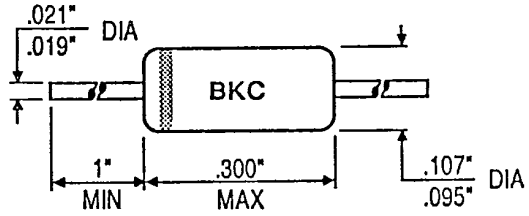
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 120 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 120 | | V | 25 °C |
| Reverse Current | Ir | 100 V | | 50 | µA | 25 °C |
| Forward Voltage | Vf | 100 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N527

## GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

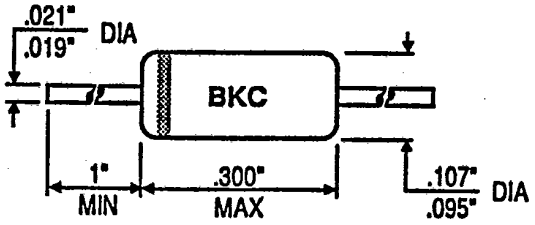
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 10 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 10 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 50 | µA | 25 °C |
| Forward Voltage | Vf | 1 mA | | .3 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. **1N541** T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

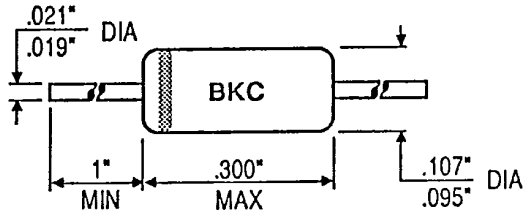
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 45 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 45 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 18 | µA | 25 °C |
| Reverse Current | Ir | 30 V | | 150 | µA | °C |
| Forward Voltage | Vf | 10 mA | | 2.2 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N542

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

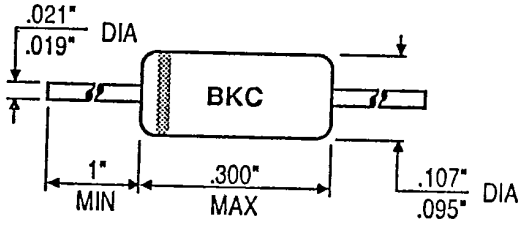
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 45 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 45 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 18 | µA | 25 °C |
| Reverse Current | Ir | 30 V | | 150 | µA | °C |
| Forward Voltage | Vf | 10 mA | | 2.2 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N567

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

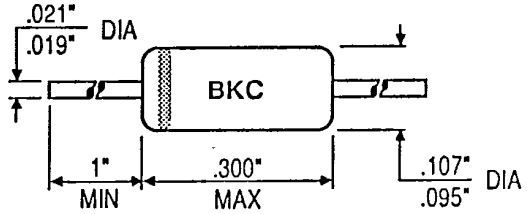
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 100 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 100 | | V | 25 °C |
| Reverse Current | Ir | 100 V | | 150 | µA | 25 °C |
| Forward Voltage | Vf | 150 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N568

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

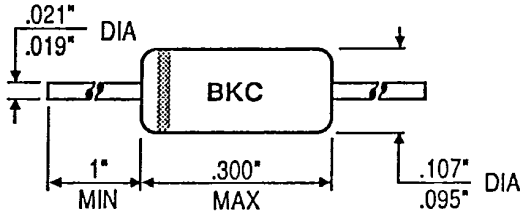
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 7 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 7 | | V | 25 °C |
| Reverse Current | Ir | 5 V | | 100 | µA | 25 °C |
| Forward Voltage | Vf | 5 mA | | .32 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N571

T-03-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

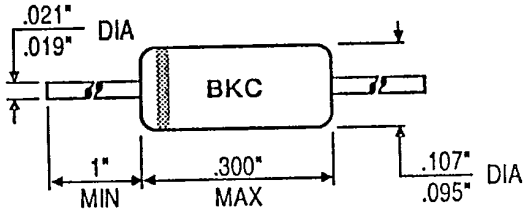
| | |
|---|---|
| Peak Inverse Voltage | 12 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 12 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 100 | µA | 55 °C |
| Forward Voltage | Vf | 200 mA | | 1 | V | 25 °C |
| Reverse Recovery | Trr | *See note* | | 4 | | |

**NOTE:** If = 100, Vr = -5, Recover to 10 kΩ.

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N616

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

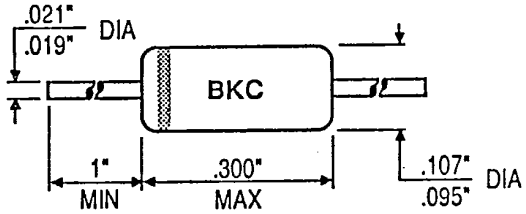
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 20 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 20 | | V | 25 °C |
| Reverse Current | Ir | 20 V | | 400 | µA | 25 °C |
| Forward Voltage | Vf | 8 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N617

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

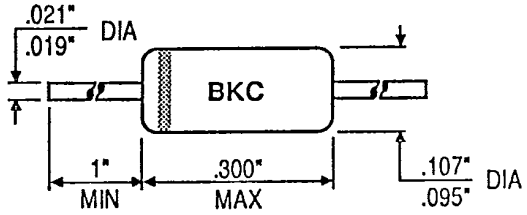
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 115 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 115 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 11 | µA | 25 °C |
| Reverse Current | Ir | 75 V | | 35 | µA | 60 °C |
| Forward Voltage | Vf | 3 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N618

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

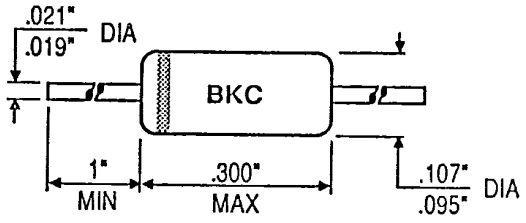
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 115 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 115 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 70 | µA | 25 °C |
| Forward Voltage | Vf | 5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N631

T-03-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

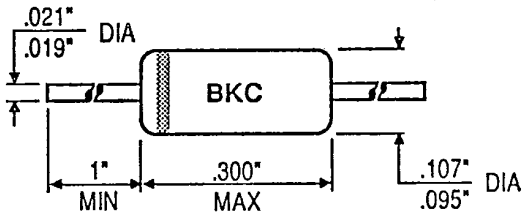
| | |
|---|---|
| Peak Inverse Voltage | 90 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 90 | | V | 25 °C |
| Reverse Current | Ir | 60 V | | 120 | µA | 25 °C |
| Forward Voltage | Vf | 50 mA | | 3.5 | V | 25 °C |
| Reverse Recovery | Trr | *See note* | | 300 | | |

**NOTE:** If = 5, Vr = -40, Recover to .5 mA.

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N632

T-03-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

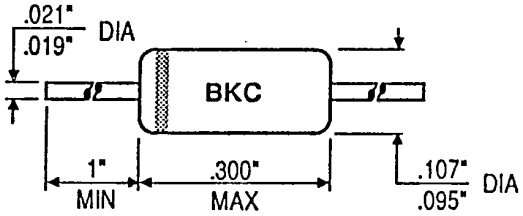
| | |
|---|---|
| Peak Inverse Voltage | 90 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 90 | | V | 25 °C |
| Reverse Current | Ir | 60 V | | 120 | µA | 25 °C |
| Forward Voltage | Vf | 7 mA | | 1 | V | 25 °C |
| Reverse Recovery | Trr | *See note* | | 300 | | |

**NOTE:** If = 5, Vr = -40, Recover to .5 mA.

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N633

T-03-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

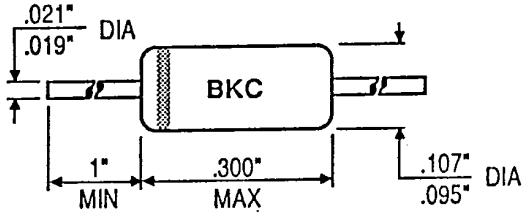
| | |
|---|---|
| Peak Inverse Voltage | 120 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 120 | | V | 25 °C |
| Reverse Current | Ir | 90 V | | 180 | µA | 25 °C |
| Forward Voltage | Vf | 125 mA | | 1 | V | 25 °C |
| Reverse Recovery | Trr | *See note* | | 300 | | |

NOTE: If = 5, Vr = -40, Recover to .5 mA.

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N634

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

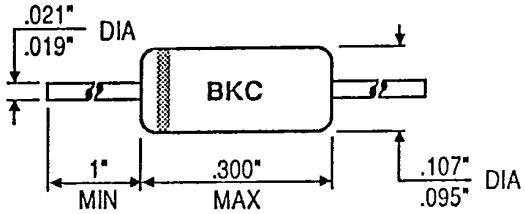
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 115 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 115 | | V | 25 °C |
| Reverse Current | Ir | 45 V | | 45 | µA | 25 °C |
| Reverse Current | Ir | 100 V | | 100 | µA | °C |
| Forward Voltage | Vf | 50 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N635

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

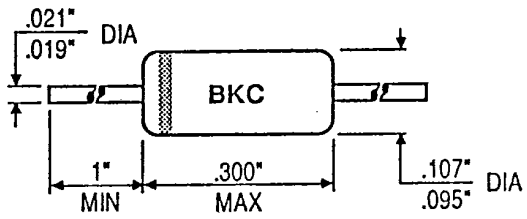
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 165 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 165 | | V | 25 °C |
| Reverse Current | Ir | 150 V | | 175 | µA | 25 °C |
| Forward Voltage | Vf | 50 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

# Type No. 1N636

T-01-07

# GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

Telephone (617) 681-0392
TeleFax (617) 681-9135
Telex 928377

BKC International
Electronics Inc.

## FEATURES

**Low forward voltage drop**—low power consumption
**Thirty years of proven reliability**—one million hours mean time between failures (MTBF)
**Very low noise level**
**Metallurgically bonded**

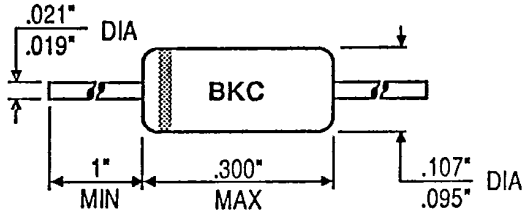
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|---|---|
| Peak Inverse Voltage | 60 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

## ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|---|---|---|---|---|---|---|
| Peak Inverse Voltage | PIV | 1 mA | 60 | | V | 25 °C |
| Reverse Current | Ir | 10 V | | 10 | µA | 25 °C |
| Forward Voltage | Vf | 2.5 mA | | 1 | V | 25 °C |

## MECHANICAL




Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.