



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

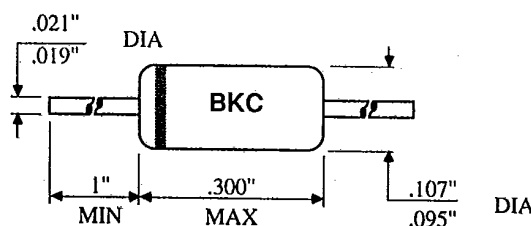
ABSOLUTE MAXIMUM RATINGS

| | | |
|-----------------------------|---------------|-----------|
| 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 | I _r | 10V | | 75 | uA | 75° |
| Inverse Current | I _r | 50V | | 250 | uA | 75° |
| Forward Voltage | V _f | 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
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

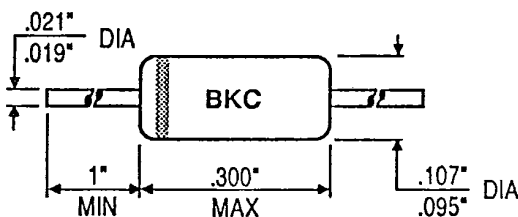
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 50 V | | 125 | μA | 25 °C |
| Forward Voltage | V _f | 20 mA | | 1 | V | 25 °C |

MECHANICAL



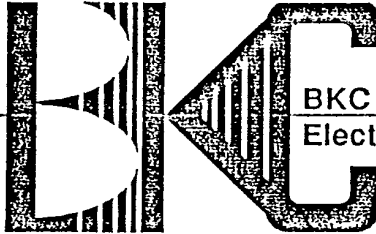
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N279

T-01-07

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FEATURES

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- Thirty years of proven reliability—one million hours mean time between failures (MTBF)
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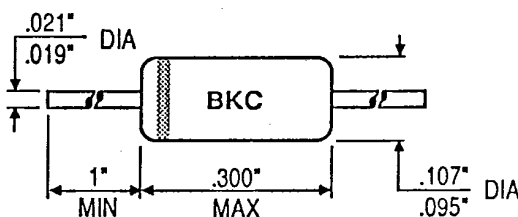
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 20 V | | 200 | μA | 25 °C |
| Forward Voltage | V _f | 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

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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

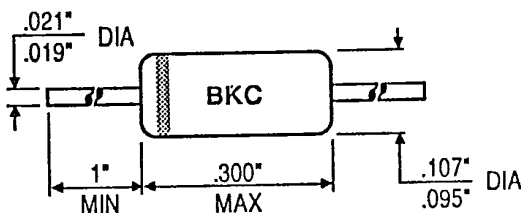
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 10 V | | 30 | μA | 25 °C |
| Reverse Current | I _r | 50 V | | 500 | μA | °C |
| Forward Voltage | V _f | 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

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FEATURES

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- Thirty years of proven reliability—one million hours mean time between failures (MTBF)
- Very low noise level
- Metallurgically bonded

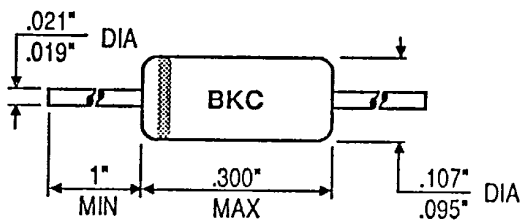
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 10 V | | 20 | μA | 25 °C |
| Forward Voltage | V _f | 200 mA | | 1 | V | 25 °C |

MECHANICAL



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

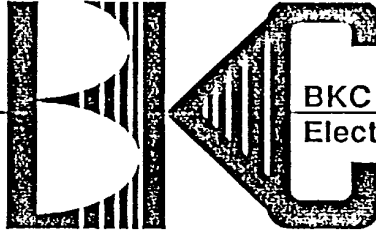
Type No. 1N287

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FEATURES

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- Thirty years of proven reliability—one million hours mean time between failures (MTBF)
- Very low noise level
- Metallurgically bonded

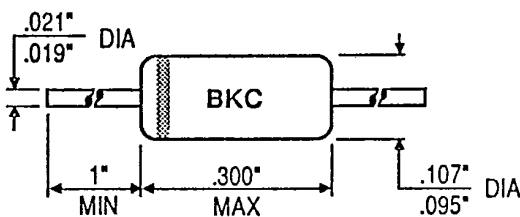
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 50 V | | 1500 | μA | 25 °C |
| Forward Voltage | V _f | 20 mA | | 1 | V | 25 °C |

MECHANICAL



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

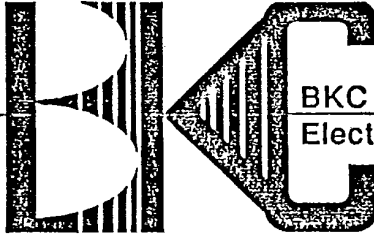
Type No. 1N288

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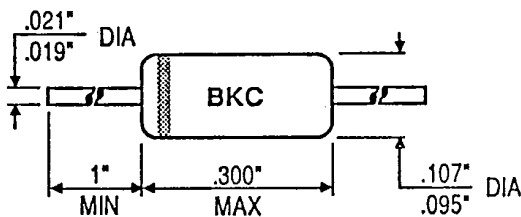
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 50 V | | 350 | μA | 25 °C |
| Forward Voltage | V _f | 40 mA | | 1 | V | 25 °C |

MECHANICAL



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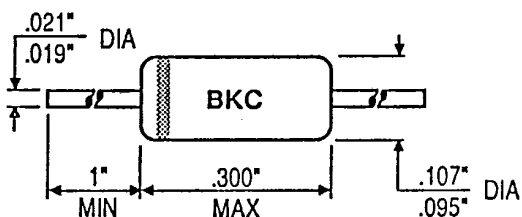
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 50 V | | 50 | μA | 25 °C |
| Forward Voltage | V _f | 20 mA | | 1 | V | 25 °C |

MECHANICAL



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

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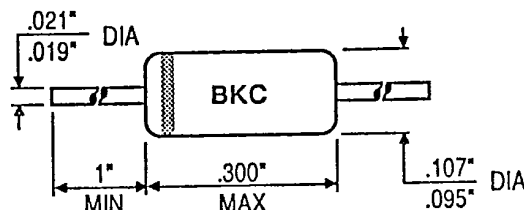
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I_r | 100 V | | 100 | μ A | 25 °C |
| Forward Voltage | V_f | 5 mA | | 1 | V | 25 °C |

MECHANICAL



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

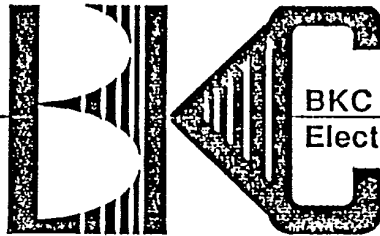
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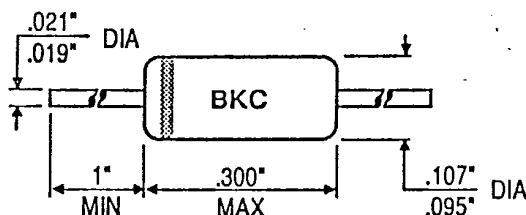
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I_r | 100 V | | 100 | μ A | 25 °C |
| Forward Voltage | V_f | 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
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**BKC International
Electronics Inc.**

Telephone (617) 681-0392
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Telex 928377

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

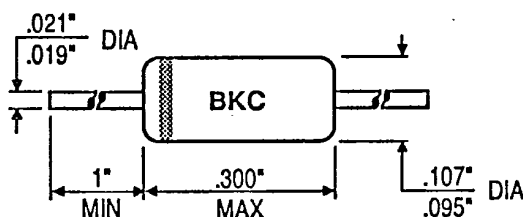
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 50 V | | 200 | μA | 25 °C |
| Forward Voltage | V _f | 100 mA | | 1 | V | 25 °C |

MECHANICAL



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

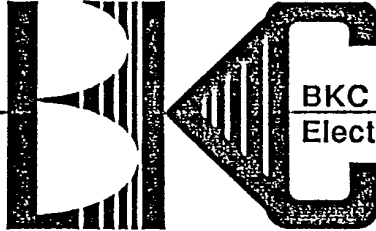
Type No. 1N294

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FEATURES

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- Metallurgically bonded

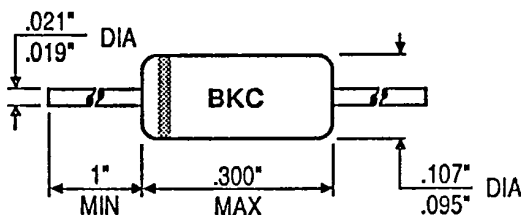
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 10 V | | 10 | μA | 25 °C |
| Reverse Current | I _r | 50 V | | 800 | μA | °C |
| Forward Voltage | V _f | 5 mA | | 1 | V | 25 °C |

MECHANICAL



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

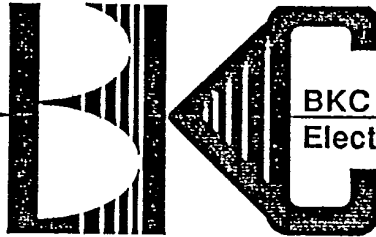
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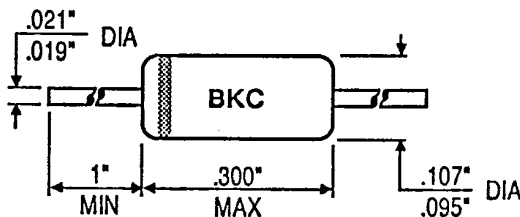
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I_r | 10 V | | 10 | μA | 25 °C |
| Forward Voltage | V_f | 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

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FEATURES

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- Thirty years of proven reliability—one million hours mean time between failures (MTBF)
- Very low noise level
- Metallurgically bonded

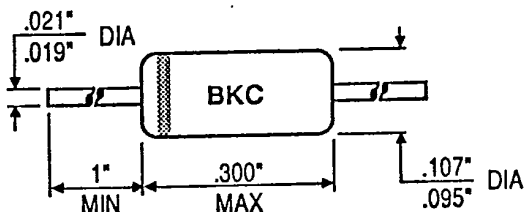
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 5 V | | 10 | μA | 25 °C |
| Reverse Current | I _r | 50 V | | 100 | μA | °C |
| Forward Voltage | V _f | 3.5 mA | | 1 | V | 25 °C |

MECHANICAL



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

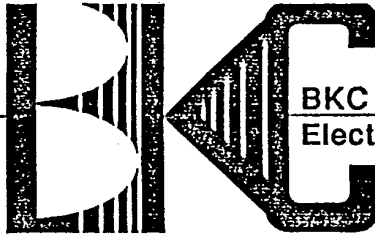
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T-01-07

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FEATURES

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- Very low noise level
- Metallurgically bonded

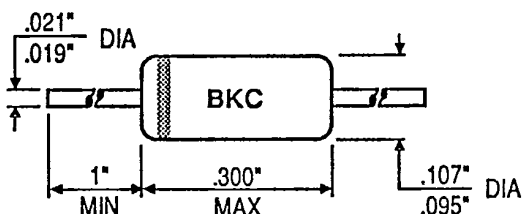
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 5 V | | 10 | μA | 25 °C |
| Forward Voltage | V _f | 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

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FEATURES

- Low forward voltage drop—low power consumption
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- Metallurgically bonded

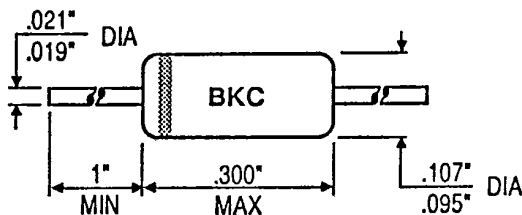
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I_r | 40 V | | 250 | μ A | 25 °C |
| Forward Voltage | V_f | 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

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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

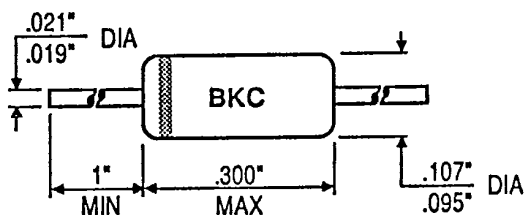
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 40 V | | 250 | μA | 25 °C |
| Forward Voltage | V _f | 30 mA | | 2 | V | 25 °C |

MECHANICAL



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

Type No. 1N314

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

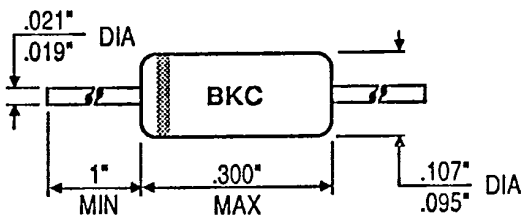
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 10 V | | 50 | μA | 25 °C |
| Forward Voltage | V _f | 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

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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

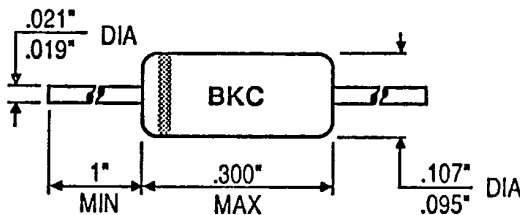
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 10 V | | 10 | μA | 25 °C |
| Reverse Current | I _r | 50 V | | 50 | μA | °C |
| Forward Voltage | V _f | 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

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Telex 928377



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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

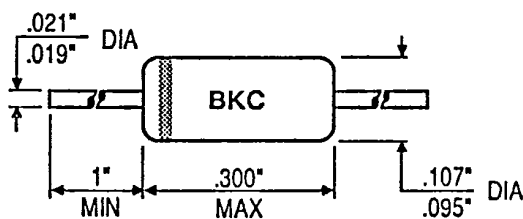
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | V | | | μA | 25 °C |
| Forward Voltage | V _f | 20 mA | | 1 | V | 25 °C |

MECHANICAL



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

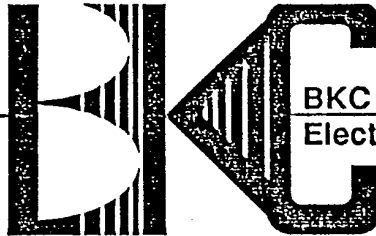
Type No. 1N417

T-03-07

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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)

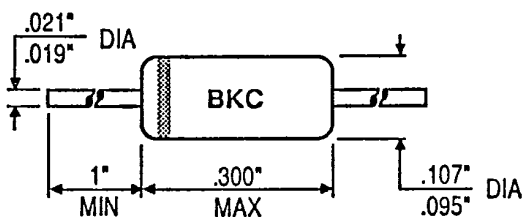
| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 60 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|----------------------|-----------------|------------|-----|------|------|-------|
| Peak Inverse Voltage | PIV | 1 mA | 60 | | V | 25 °C |
| Reverse Current | I _r | V | | | μA | 25 °C |
| Forward Voltage | V _f | 5 mA | | 3.54 | V | 25 °C |
| Reverse Recovery | T _{rr} | See note | | 300 | | |

NOTE: I_f = 5, V_r = -40, Recover to .

MECHANICAL



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

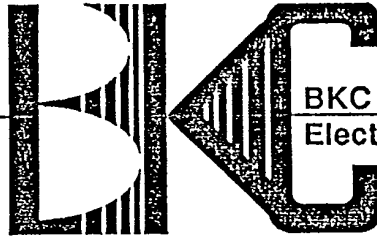
Type No. 1N418

T-03-07

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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)

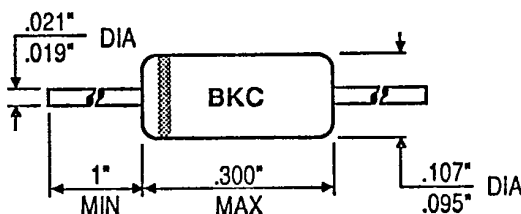
| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 60 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV | 1 mA | 60 | | V | 25 °C |
| Reverse Current | I _r | V | | | μA | 25 °C |
| Forward Voltage | V _f | 7 mA | | 1 | V | 25 °C |
| Reverse Recovery | T _{rr} | See note | | 300 | | |

NOTE: I_f = 5, V_r = -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

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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)

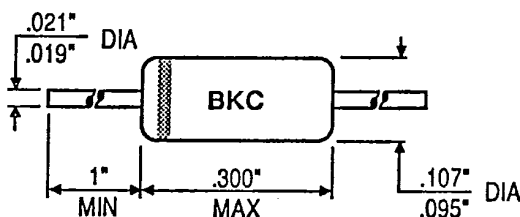
| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 80 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|----------------------|----------|------------|-----|-----|---------|-------|
| Peak Inverse Voltage | PIV | 1 mA | 80 | | V | 25 °C |
| Reverse Current | I_r | 90 V | | 180 | μ A | 25 °C |
| Forward Voltage | V_f | 125 mA | | 1 | V | 25 °C |
| Reverse Recovery | T_{rr} | See note | | 300 | | |

NOTE: $I_f = 5$, $V_r = -40$, Recover to .

MECHANICAL



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

Type No. 1N447

T-01-07

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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

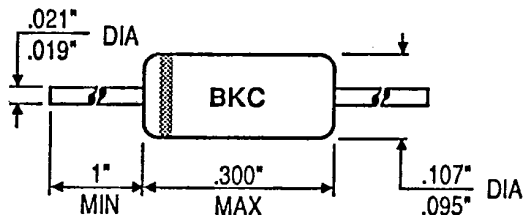
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I_r | 10 V | | 20 | μ A | 25 °C |
| Reverse Current | I_r | 30 V | | 60 | μ A | °C |
| Forward Voltage | V_f | 25 mA | | 1 | V | 25 °C |

MECHANICAL



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

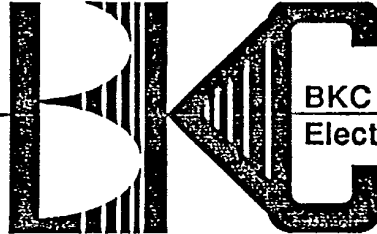
Type No. 1N448

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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

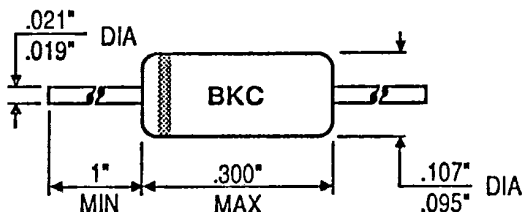
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I_r | 30 V | | 30 | μA | 25 °C |
| Forward Voltage | V_f | 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

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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

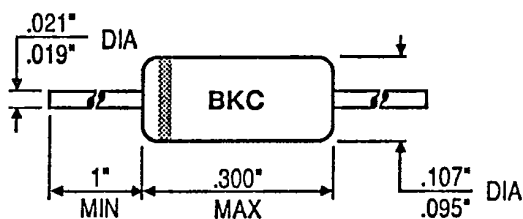
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 30 V | | 30 | μA | 25 °C |
| Forward Voltage | V _f | 50 mA | | 1 | V | 25 °C |

MECHANICAL



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

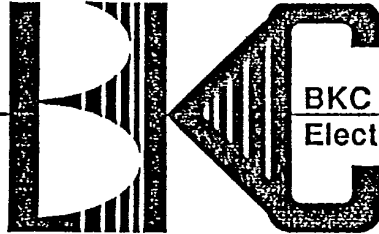
Type No. 1N450

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Telex 928377



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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

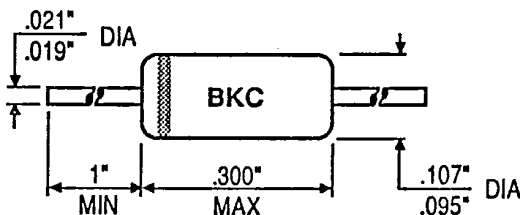
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I_r | 30 V | | 30 | μ A | 25 °C |
| Reverse Current | I_r | 100 V | | 100 | μ A | °C |
| Forward Voltage | V_f | 50 mA | | 1 | V | 25 °C |

MECHANICAL



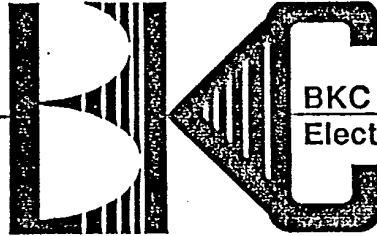
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N451

T-01-07

GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841



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Electronics Inc.

Telephone (617) 681-0392
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Telex 928377

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

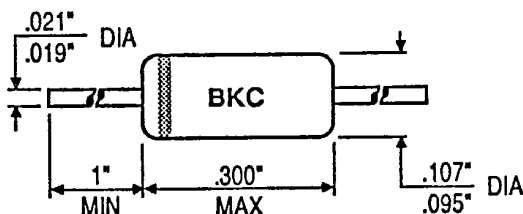
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 150 V | | 150 | μA | 25 °C |
| Forward Voltage | V _f | 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

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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

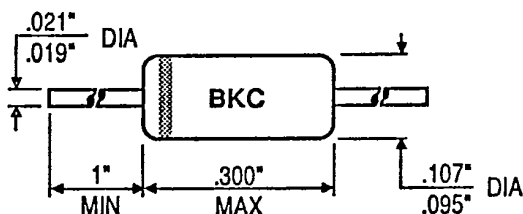
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 30 V | | 30 | μA | 25 °C |
| Forward Voltage | V _f | 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

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Telex 928377



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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

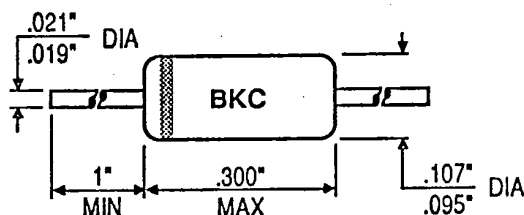
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 100 V | | 100 | μA | 25 °C |
| Forward Voltage | V _f | 100 mA | | 1 | V | 25 °C |

MECHANICAL



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

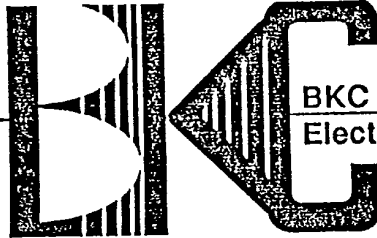
Type No. 1N454

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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

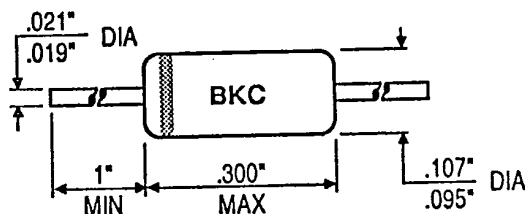
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 50 V | | 50 | μA | 25 °C |
| Forward Voltage | V _f | 200 mA | | 1 | V | 25 °C |

MECHANICAL



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

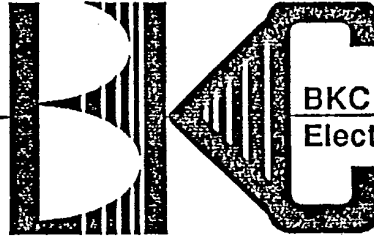
Type No. 1N455

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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

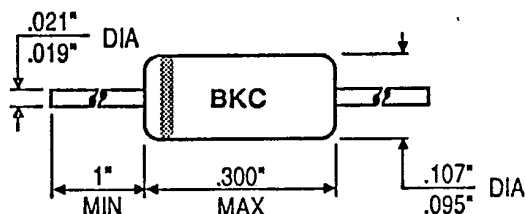
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 30 V | | 30 | μA | 25 °C |
| Forward Voltage | V _f | 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

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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

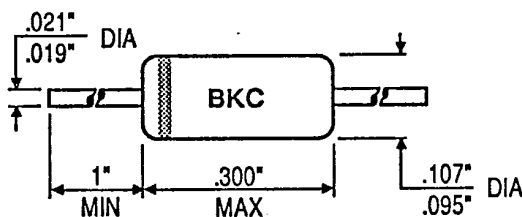
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 10 V | | 11 | μA | 25 °C |
| Reverse Current | I _r | 10 V | | 60 | μA | 60 °C |
| Forward Voltage | V _f | 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
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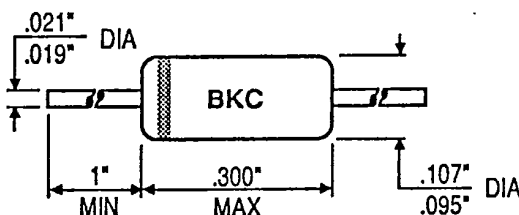
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 10 V | | 11 | μA | 25 °C |
| Reverse Current | I _r | 10 V | | 60 | μA | 60 °C |
| Forward Voltage | V _f | 2.5 mA | | 1 | V | 25 °C |

MECHANICAL



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

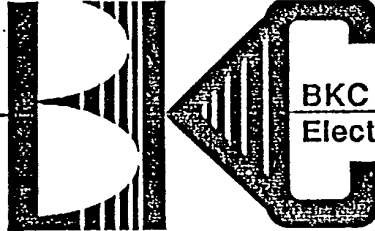
Type No. 1N478

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FEATURES

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- Very low noise level
- Metallurgically bonded

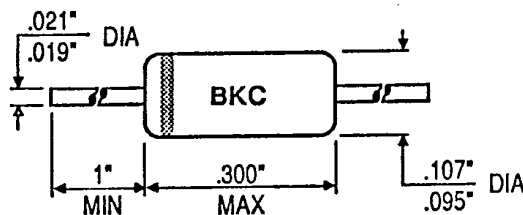
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 10 V | | 7 | μA | 25 °C |
| Forward Voltage | V _f | 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
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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

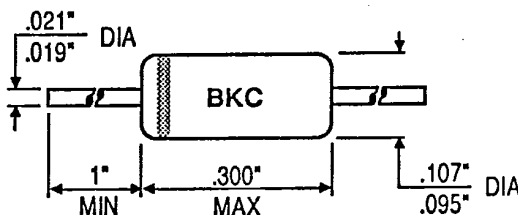
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 10 V | | 7 | μA | 25 °C |
| Forward Voltage | V _f | 5 mA | | 1 | V | 25 °C |

MECHANICAL



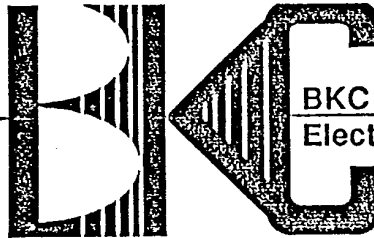
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N480

T-01-07

GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
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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

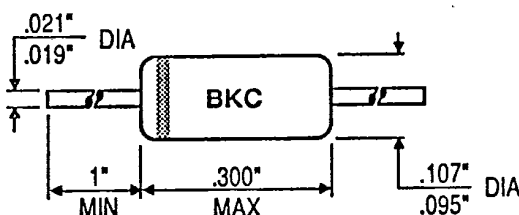
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 50 V | | 125 | μA | 25 °C |
| Forward Voltage | V _f | 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
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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

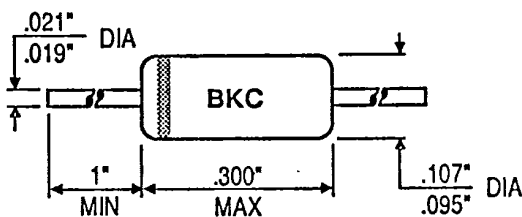
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 50 V | | 250 | μA | 25 °C |
| Forward Voltage | V _f | 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

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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

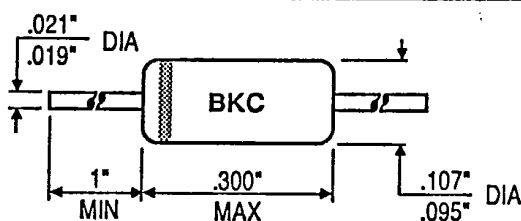
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I_r | 20 V | | 20 | μ A | 25 °C |
| Forward Voltage | V_f | 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
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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

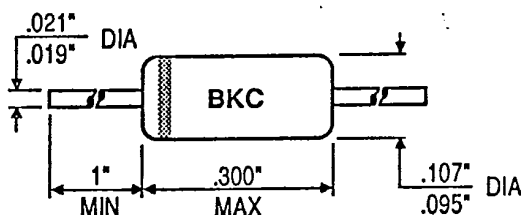
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 40 V | | 25 | μA | 25 °C |
| Forward Voltage | V _f | 100 mA | | 1 | V | 25 °C |

MECHANICAL



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

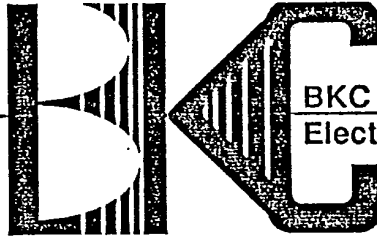
Type No. 1N499

T-03-07

GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

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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)

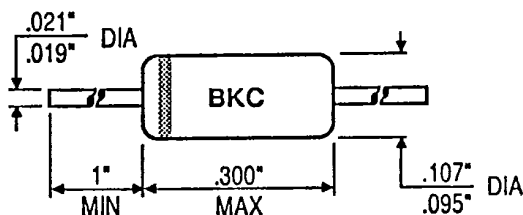
| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 75 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV | 1 mA | 75 | | V | 25 °C |
| Reverse Current | I _r | 50 V | | 30 | μA | 25 °C |
| Forward Voltage | V _f | 100 mA | | 1 | V | 25 °C |
| Reverse Recovery | T _{rr} | See note | | 300 | | |

NOTE: I_f = 5, V_r = -40, Recover to .

MECHANICAL



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

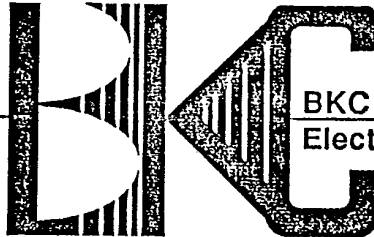
Type No. 1N500

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FEATURES

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- Metallurgically bonded

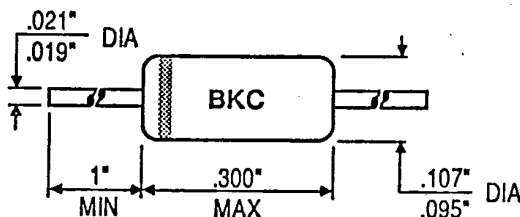
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I_r | 60 V | | 40 | μ A | 25 °C |
| Forward Voltage | V_f | 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

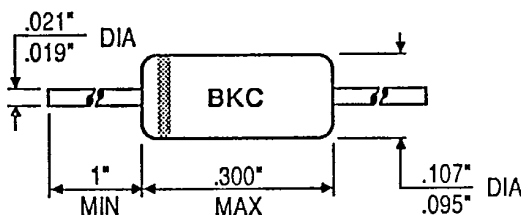
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 80 V | | 40 | μA | 25 °C |
| Forward Voltage | V _f | 100 mA | | 1 | V | 25 °C |

MECHANICAL



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

Type No. 1N502

T-01-07

GOLD BONDED GERMANIUM DIODE

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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

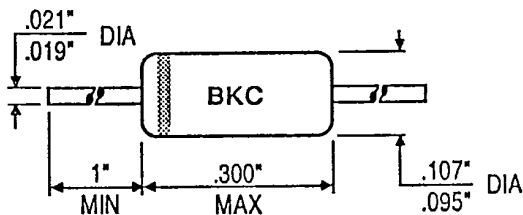
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 100 V | | 50 | μA | 25 °C |
| Forward Voltage | V _f | 100 mA | | 1 | V | 25 °C |

MECHANICAL



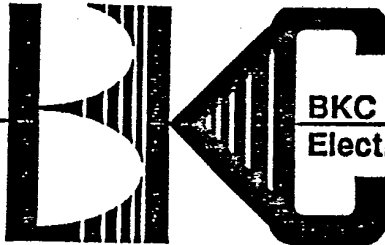
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

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

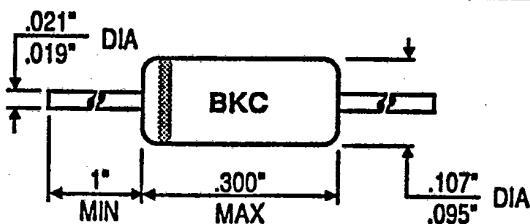
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 10 V | | 50 | μA | 25 °C |
| Forward Voltage | V _f | 1 mA | | .3 | V | 25 °C |

MECHANICAL



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

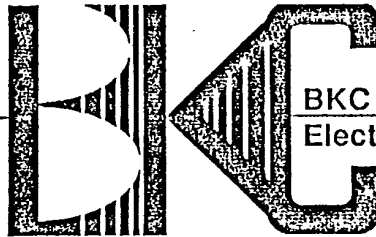
Type No. 1N541

T-01-07

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Telex 928377



BKC International
Electronics Inc.

FEATURES

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- Thirty years of proven reliability—one million hours mean time between failures (MTBF)
- Very low noise level
- Metallurgically bonded

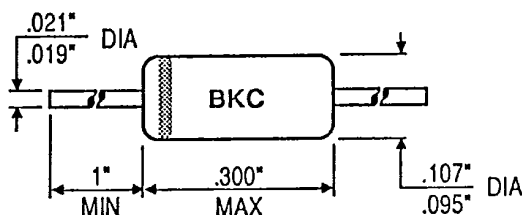
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 10 V | | 18 | μA | 25 °C |
| Reverse Current | I _r | 30 V | | 150 | μA | °C |
| Forward Voltage | V _f | 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

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BKC International
Electronics Inc.

FEATURES

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- Very low noise level
- Metallurgically bonded

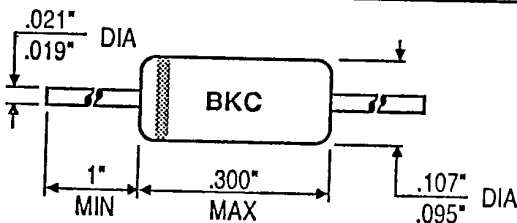
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 10 V | | 18 | μA | 25 °C |
| Reverse Current | I _r | 30 V | | 150 | μA | °C |
| Forward Voltage | V _f | 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

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Telex 928377



BKC International
Electronics Inc.

FEATURES

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- Very low noise level
- Metallurgically bonded

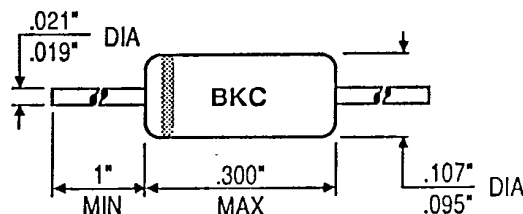
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I_r | 100 V | | 150 | μ A | 25 °C |
| Forward Voltage | V_f | 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

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BKC International
Electronics Inc.

FEATURES

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- Thirty years of proven reliability—one million hours mean time between failures (MTBF)
- Very low noise level
- Metallurgically bonded

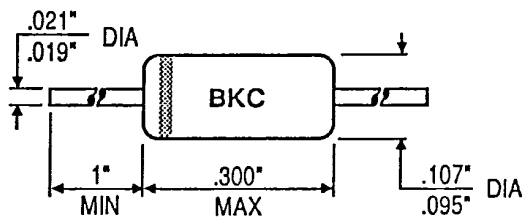
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 5 V | | 100 | μA | 25 °C |
| Forward Voltage | V _f | 5 mA | | .32 | V | 25 °C |

MECHANICAL



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

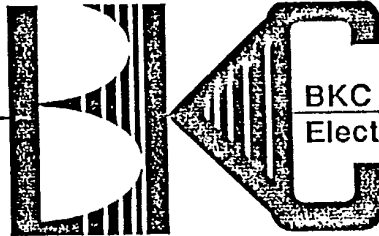
Type No. 1N571

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)

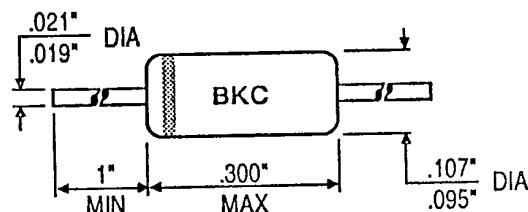
| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 12 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV | 1 mA | 12 | | V | 25 °C |
| Reverse Current | I _r | 10 V | | 100 | μA | 55 °C |
| Forward Voltage | V _f | 200 mA | | 1 | V | 25 °C |
| Reverse Recovery | T _{rr} | See note | | 4 | | |

NOTE: I_f = 100, V_r = -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

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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

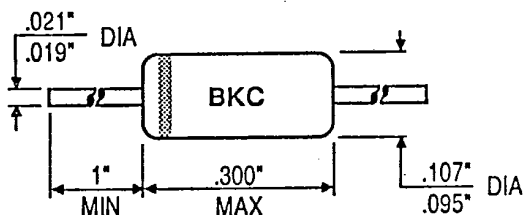
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 20 V | | 400 | μA | 25 °C |
| Forward Voltage | V _f | 8 mA | | 1 | V | 25 °C |

MECHANICAL



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

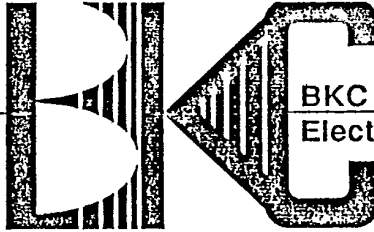
Type No. 1N617

T-01-07

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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

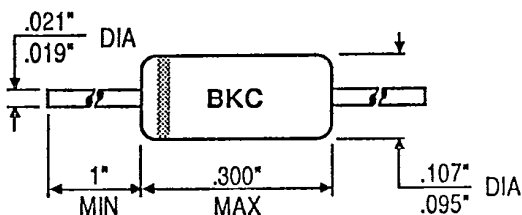
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I_r | 10 V | | 11 | μ A | 25 °C |
| Reverse Current | I_r | 75 V | | 35 | μ A | 60 °C |
| Forward Voltage | V_f | 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

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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

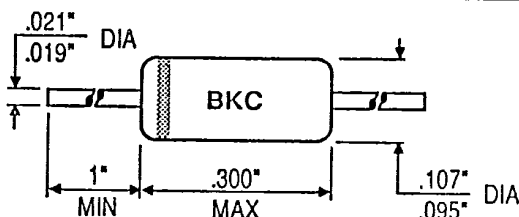
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I_r | 10 V | | 70 | μ A | 25 °C |
| Forward Voltage | V_f | 5 mA | | 1 | V | 25 °C |

MECHANICAL



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

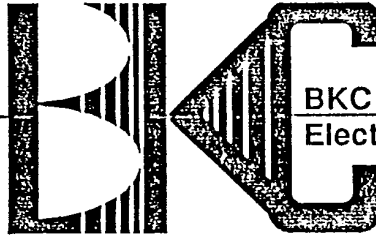
Type No. 1N631

T-03-07

GOLD BONDED GERMANIUM DIODE

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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)

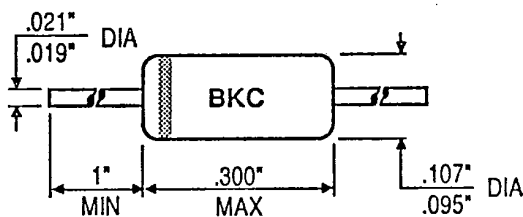
| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 90 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV | 1 mA | 90 | | V | 25 °C |
| Reverse Current | I _r | 60 V | | 120 | μA | 25 °C |
| Forward Voltage | V _f | 50 mA | | 3.5 | V | 25 °C |
| Reverse Recovery | T _{rr} | See note | | 300 | | |

NOTE: I_f = 5, V_r = -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

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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)

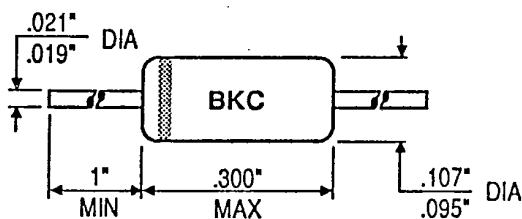
| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 90 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV | 1 mA | 90 | | V | 25 °C |
| Reverse Current | I _r | 60 V | | 120 | μA | 25 °C |
| Forward Voltage | V _f | 7 mA | | 1 | V | 25 °C |
| Reverse Recovery | T _{rr} | See note | | 300 | | |

NOTE: I_f = 5, V_r = -40, Recover to .5 mA.

MECHANICAL



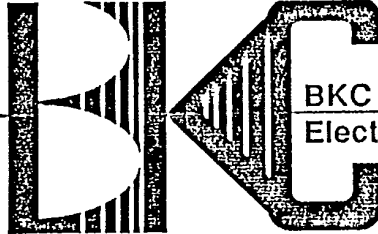
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N633

T-03-07

GOLD BONDED GERMANIUM DIODE

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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)

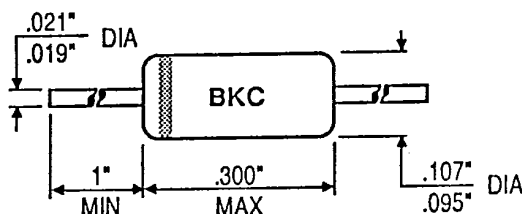
| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 120 Volts |
| Peak Forward Current | 500 mA |
| Operating Temperature Range | - 65 °C to 85 °C |
| Average Power Dissipation | 80 mW |

ELECTRICAL CHARACTERISTICS

| | Symbol | Conditions | Min | Max | Unit | T °C |
|----------------------|-----------------|------------|-----|-----|------|-------|
| Peak Inverse Voltage | PIV | 1 mA | 120 | | V | 25 °C |
| Reverse Current | I _r | 90 V | | 180 | μA | 25 °C |
| Forward Voltage | V _f | 125 mA | | 1 | V | 25 °C |
| Reverse Recovery | T _{rr} | See note | | 300 | | |

NOTE: I_f = 5, V_r = -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

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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

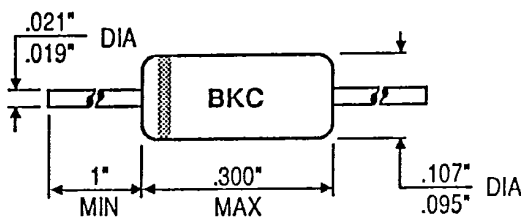
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 45 V | | 45 | μA | 25 °C |
| Reverse Current | I _r | 100 V | | 100 | μA | °C |
| Forward Voltage | V _f | 50 mA | | 1 | V | 25 °C |

MECHANICAL



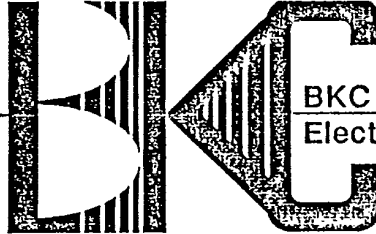
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N635

T-01-07

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Telex 928377

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

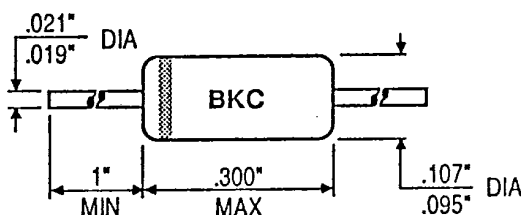
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| 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 | I _r | 150 V | | 175 | μA | 25 °C |
| Forward Voltage | V _f | 50 mA | | 1 | V | 25 °C |

MECHANICAL



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

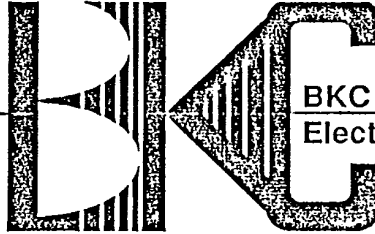
Type No. 1N636

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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

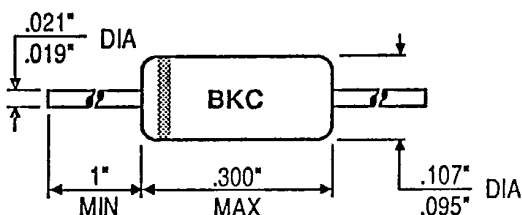
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

| | |
|-----------------------------|------------------|
| Peak Inverse Voltage | 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 | I _r | 10 V | | 10 | μA | 25 °C |
| Forward Voltage | V _f | 2.5 mA | | 1 | V | 25 °C |

MECHANICAL



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