



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

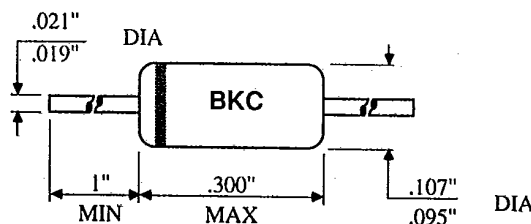
ABSOLUTE MAXIMUM RATINGS

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

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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

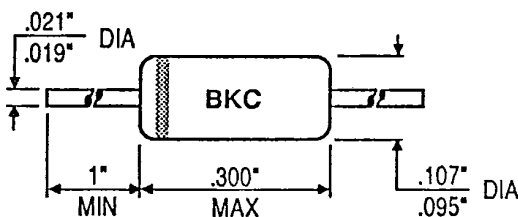
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	20 mA		1	V	25 °C

MECHANICAL



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

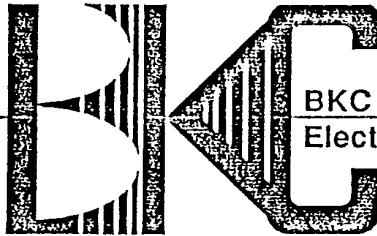
Type No. 1N279

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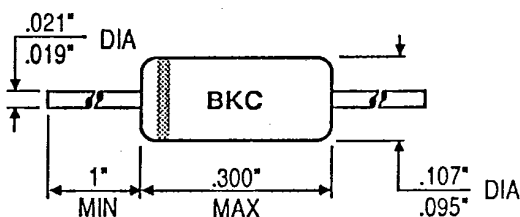
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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

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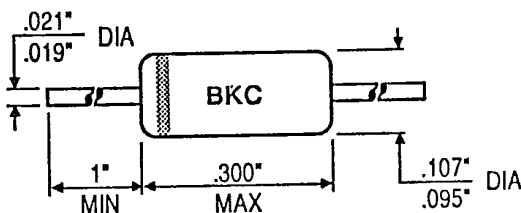
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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

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FEATURES

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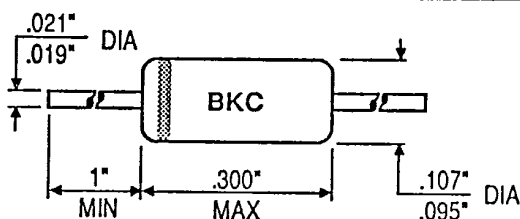
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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.

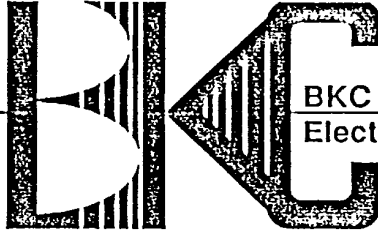
Type No. 1N287

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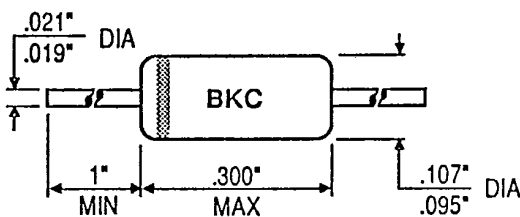
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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.

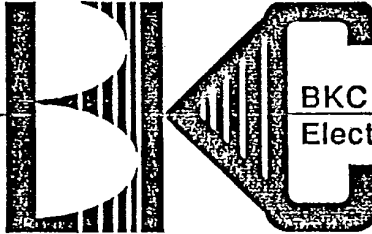
Type No. 1N288

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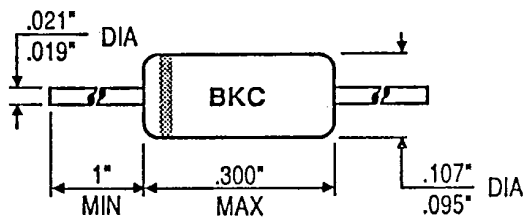
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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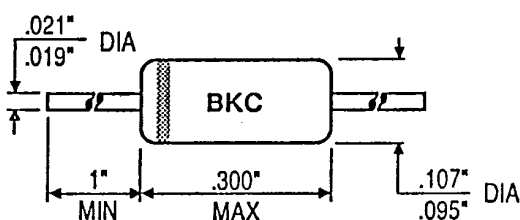
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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

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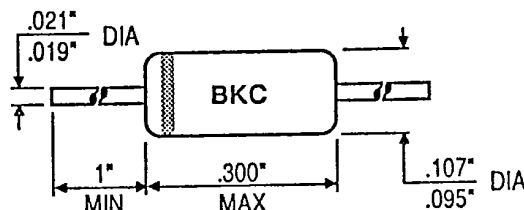
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	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.

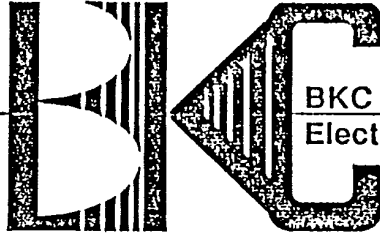
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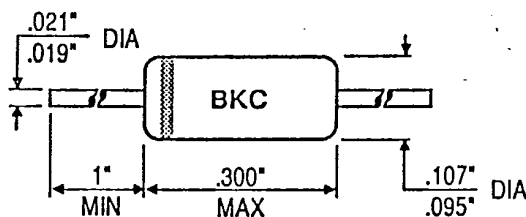
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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



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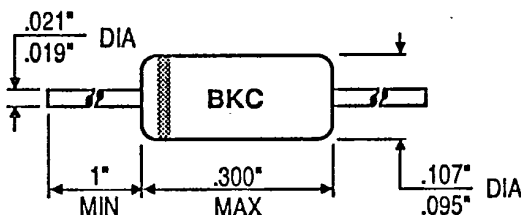
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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.

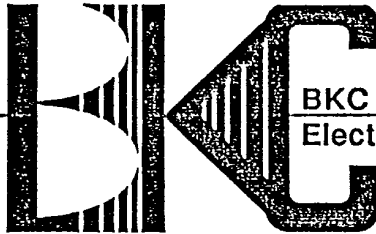
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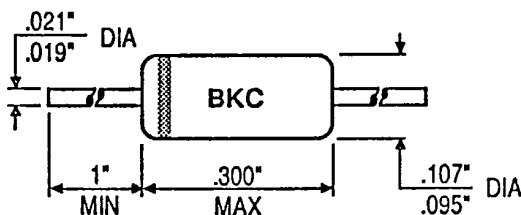
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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
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.

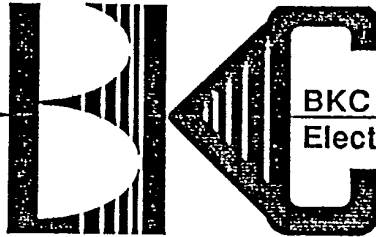
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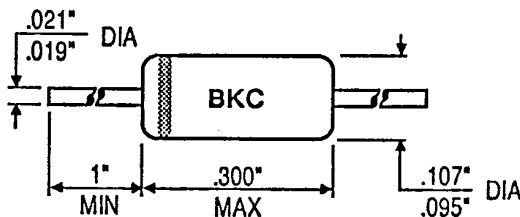
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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.

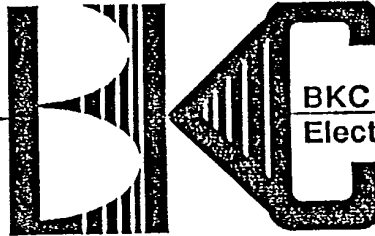
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- Metallurgically bonded

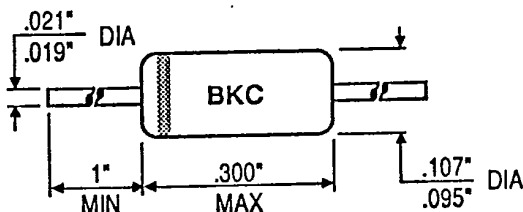
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	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.

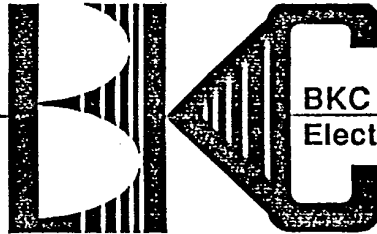
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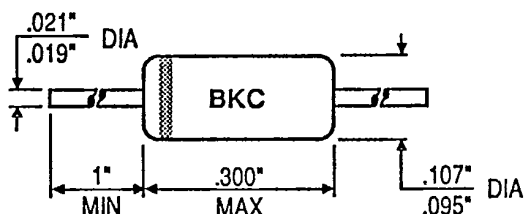
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	μ A	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

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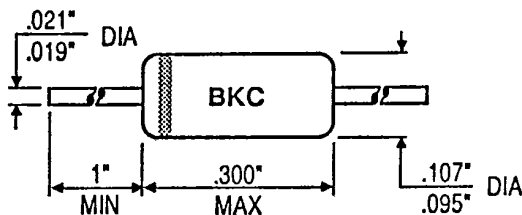
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	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. 1N298A

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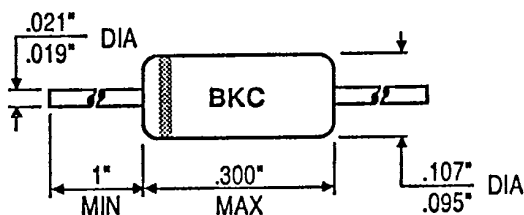
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	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.

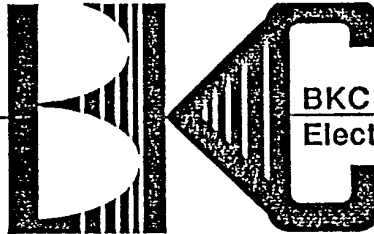
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FEATURES

- 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

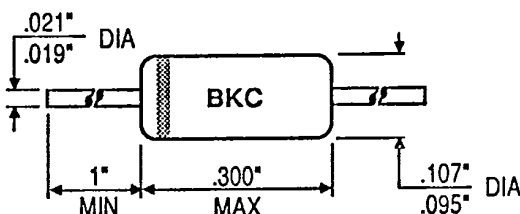
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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		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

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

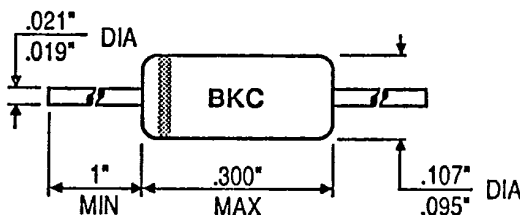
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	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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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

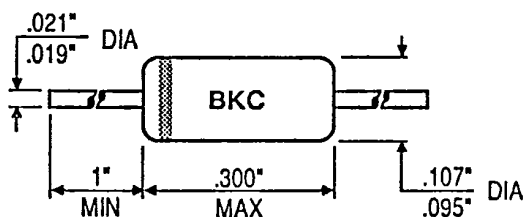
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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.

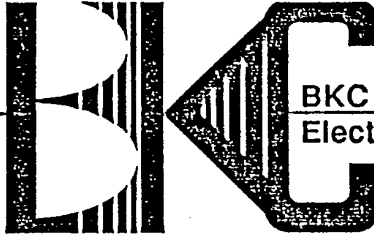
Type No. 1N417

T-03-07

GOLD BONDED GERMANIUM DIODE

6 Lake Street
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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)

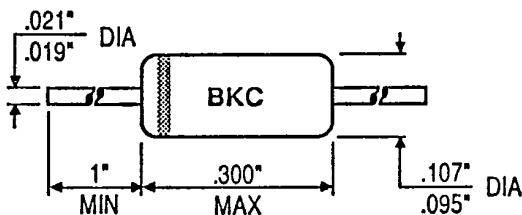
Peak Inverse Voltage	60 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

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.

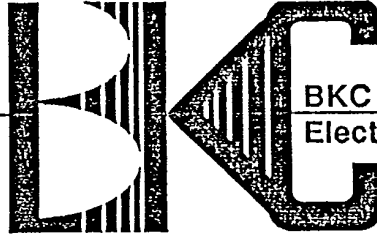
Type No. 1N418

T-03-07

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)

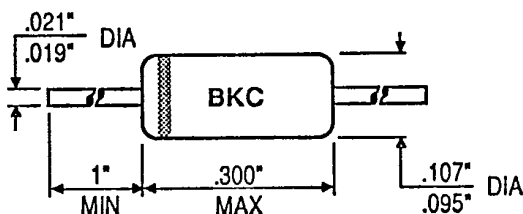
Peak Inverse Voltage	60 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

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

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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)

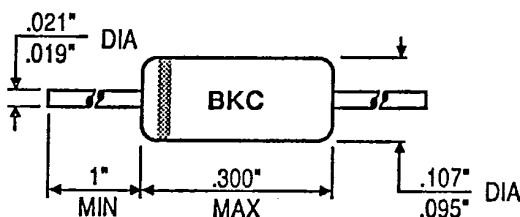
Peak Inverse Voltage	80 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	80		V	25 °C
Reverse Current	I_r	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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FEATURES

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

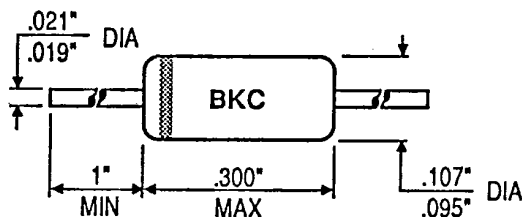
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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.

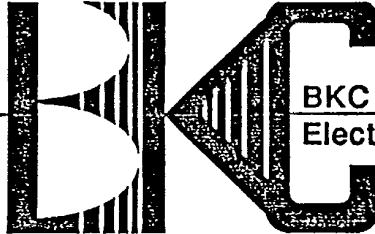
Type No. 1N448

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FEATURES

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- Very low noise level
- Metallurgically bonded

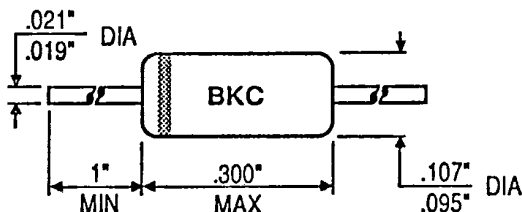
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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

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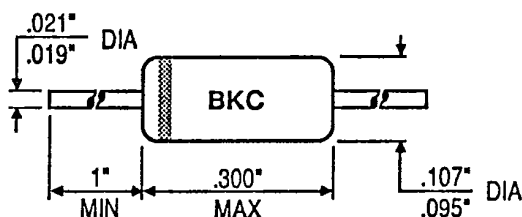
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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.

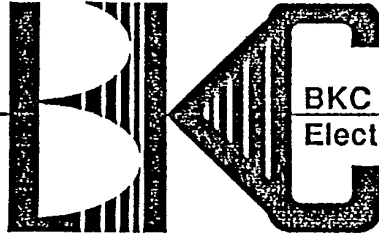
Type No. 1N450

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FEATURES

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- Very low noise level
- Metallurgically bonded

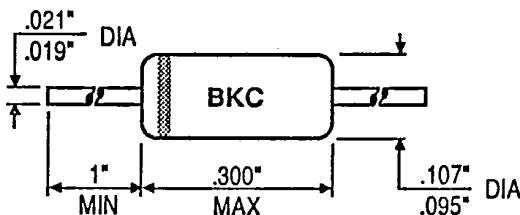
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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
Reverse Current	I_r	100 V		100	μA	°C
Forward Voltage	V_f	50 mA		1	V	25 °C

MECHANICAL



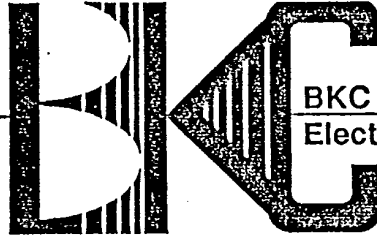
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N451

T-01-07

GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841



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

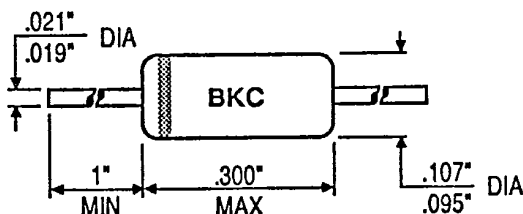
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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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Lawrence, MA 01841



BKC International
Electronics Inc.

Telephone (617) 681-0392
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Telex 928377

FEATURES

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

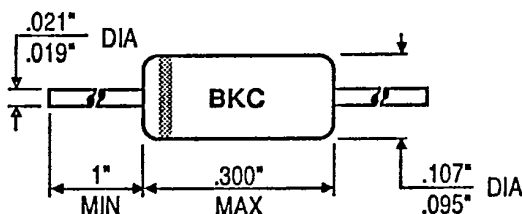
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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

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FEATURES

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- Metallurgically bonded

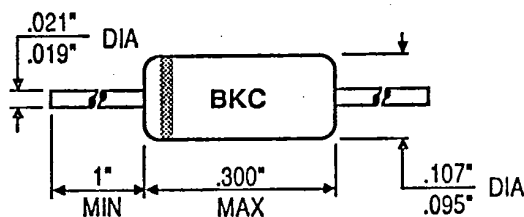
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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

T-01-07

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- Very low noise level
- Metallurgically bonded

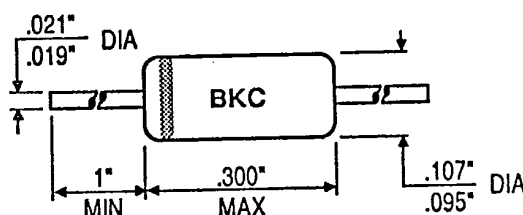
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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.

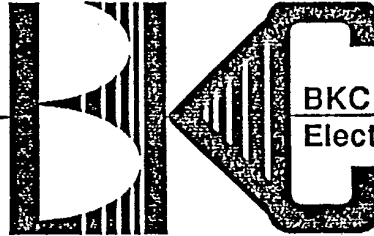
Type No. 1N455

T-01-07

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FEATURES

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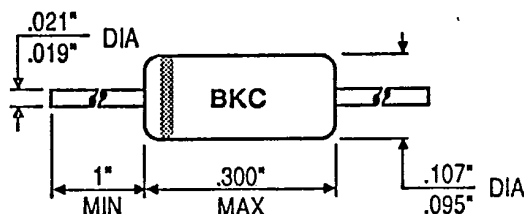
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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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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

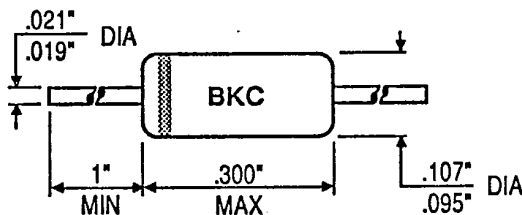
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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

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FEATURES

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- Very low noise level
- Metallurgically bonded

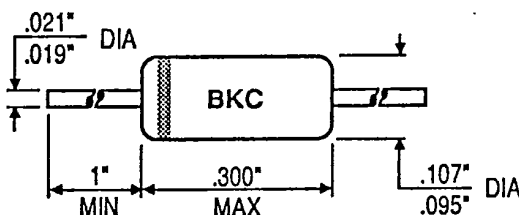
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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

T-01-07

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FEATURES

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- Very low noise level
- Metallurgically bonded

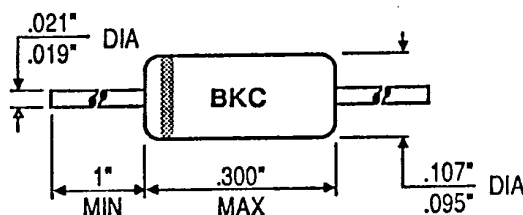
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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
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

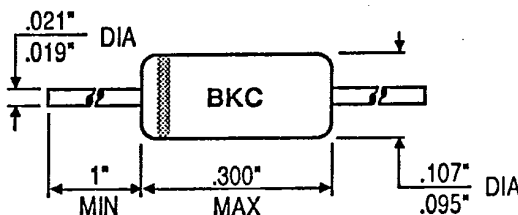
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	I _r	10 V		7	μA	25 °C
Forward Voltage	V _f	5 mA		1	V	25 °C

MECHANICAL



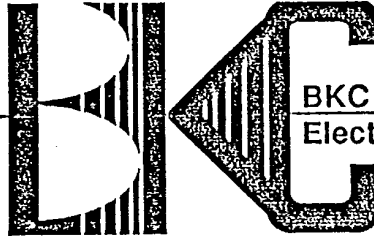
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N480

T-01-07

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PO Box 1436
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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

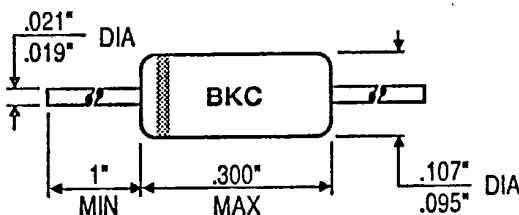
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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		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

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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

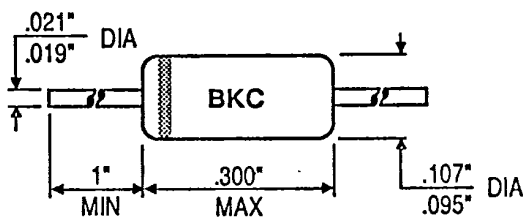
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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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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

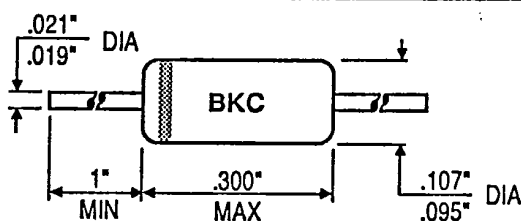
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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.

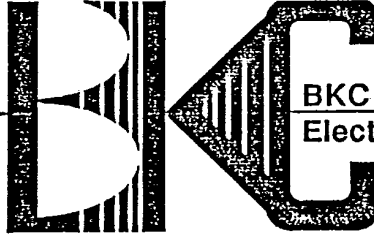
Type No. 1N498

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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

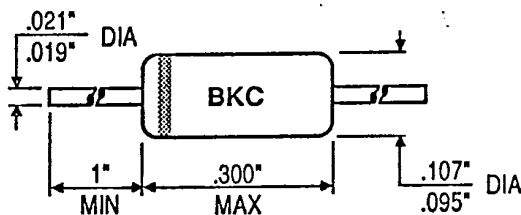
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	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.

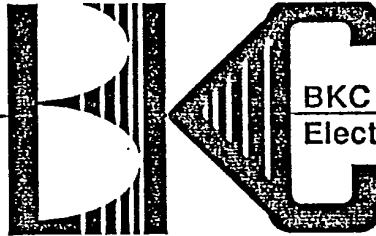
Type No. 1N499

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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)

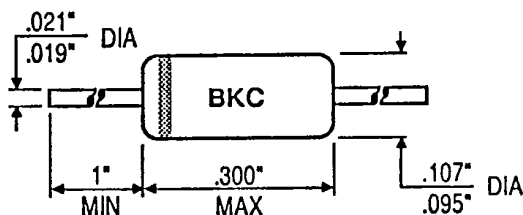
Peak Inverse Voltage	75 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	75		V	25 °C
Reverse Current	I _r	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.

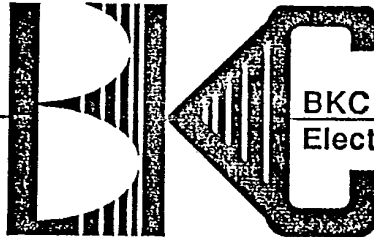
Type No. 1N500

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FEATURES

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- Metallurgically bonded

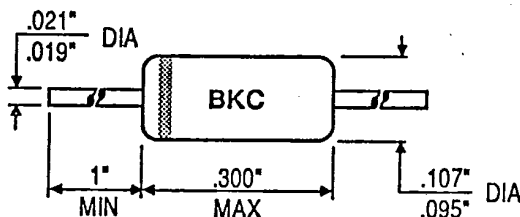
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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

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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

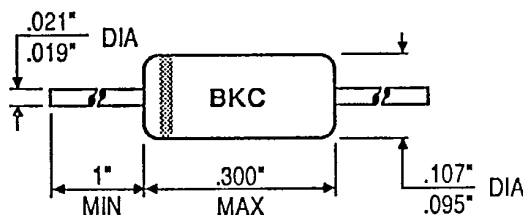
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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

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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

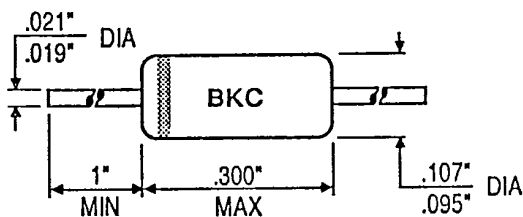
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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

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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

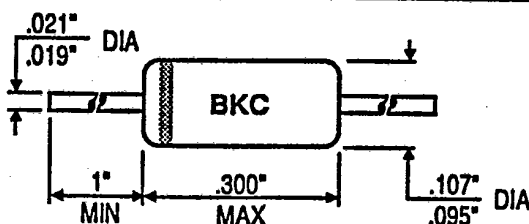
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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.

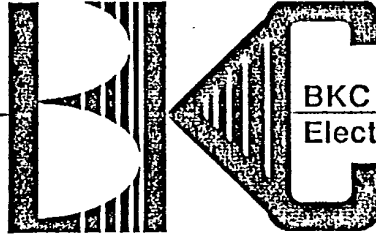
Type No. 1N541

T-01-07

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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

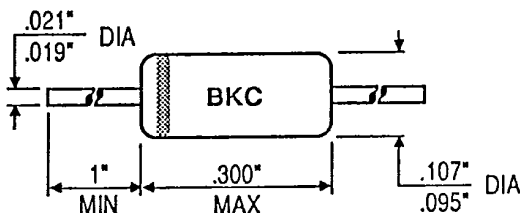
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	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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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

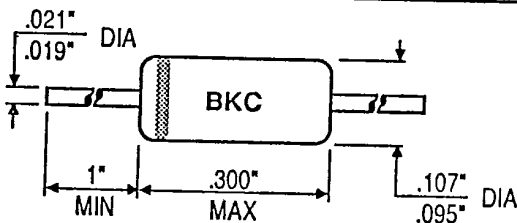
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	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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BKC International
Electronics Inc.

FEATURES

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- Very low noise level
- Metallurgically bonded

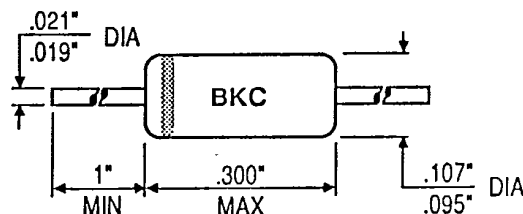
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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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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

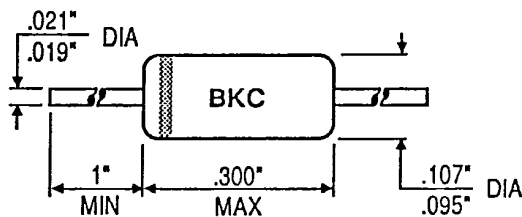
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	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.

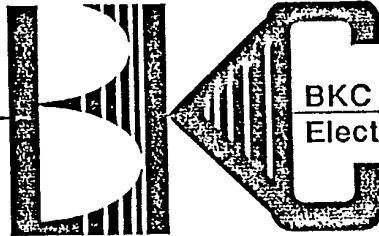
Type No. 1N571

T-03-07

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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)

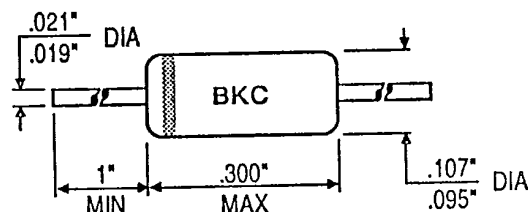
Peak Inverse Voltage	12 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

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

GOLD BONDED GERMANIUM DIODE

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BKC International
Electronics Inc.

FEATURES

- Low forward voltage drop—low power consumption
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- Very low noise level
- Metallurgically bonded

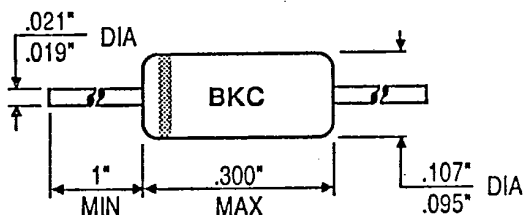
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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

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

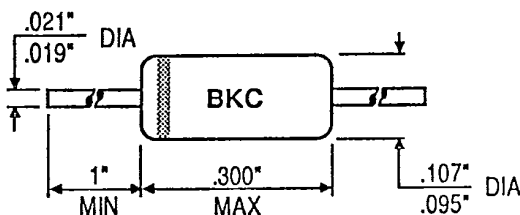
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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.

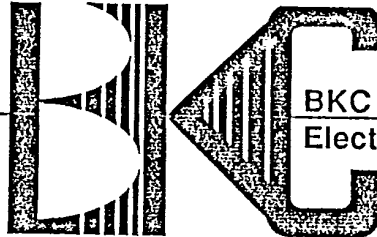
Type No. 1N618

T-01-07

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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

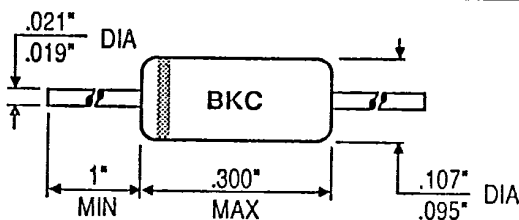
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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.

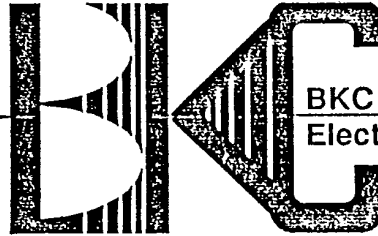
Type No. 1N631

T-03-07

GOLD BONDED GERMANIUM DIODE

6 Lake Street
PO Box 1436
Lawrence, MA 01841

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



BKC International
Electronics Inc.

FEATURES

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

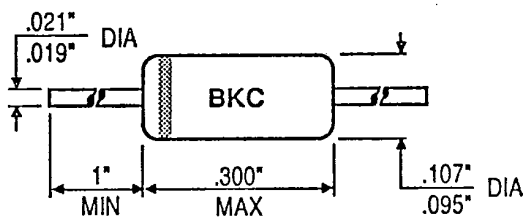
Peak Inverse Voltage	90 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	90		V	25 °C
Reverse Current	I _r	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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- Very low noise level
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ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

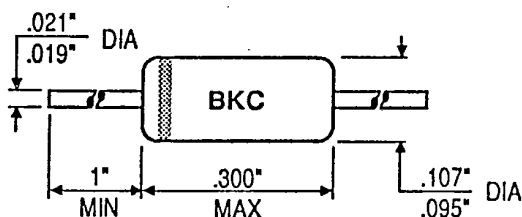
Peak Inverse Voltage	90 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	90		V	25 °C
Reverse Current	I_r	60 V		120	μ A	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



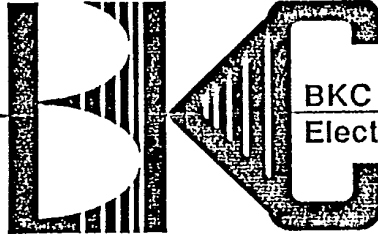
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N633

T-03-07

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

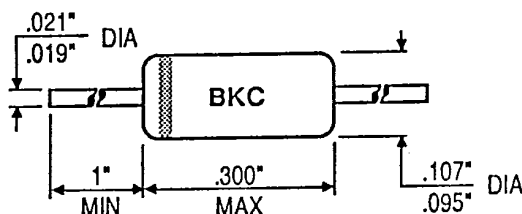
Peak Inverse Voltage	120 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	120		V	25 °C
Reverse Current	I _r	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

GOLD BONDED GERMANIUM DIODE

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FEATURES

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- Very low noise level
- Metallurgically bonded

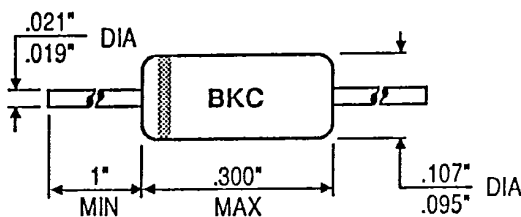
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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



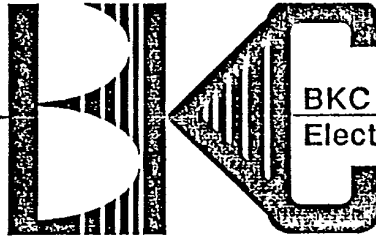
Passes all mechanical and environmental requirements of MIL-S-19500, including shock and vibration.

Type No. 1N635

T-01-07

GOLD BONDED GERMANIUM DIODE

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FEATURES

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- Very low noise level
- Metallurgically bonded

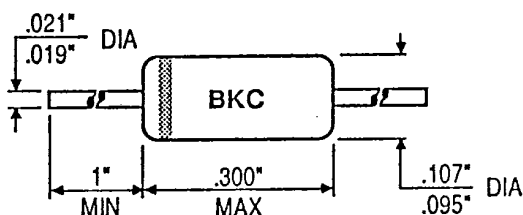
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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

T-01-07

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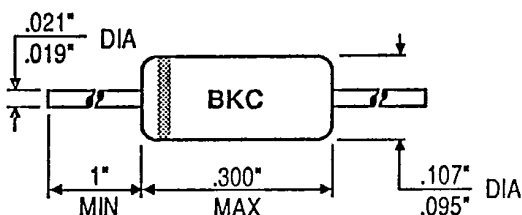
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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.