



6 Lake Street
PO Box 1436
Lawrence, MA
USA 01841

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

GOLD BONDED DIODES

TYPE **1N949**

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

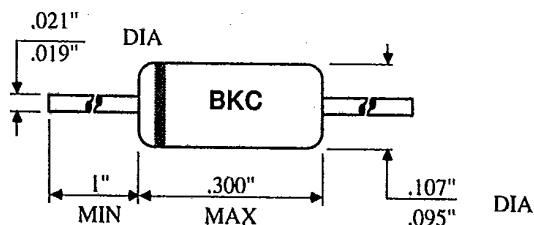
ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage	60V	@ 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	60		V	25°
Inverse Current	I _r	10V		10	uA	25°
Inverse Current	I _r	10V		50	uA	55°
Inverse Current	I _r	50V		100	uA	25°
Forward Voltage	V _f	10mA	.34	.39	V	25°

MECHANICAL



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

Type No. 1N994

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

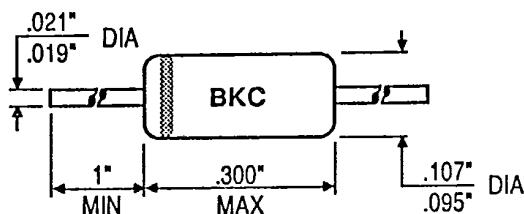
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	8 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	8		V	25 °C
Reverse Current	I _r	6 V		30	μA	25 °C
Forward Voltage	V _f	10 mA		1	V	25 °C
Reverse Recovery	T _{rr}	See note		2		

NOTE: I_f = 10, V_r = -6, Recover to 3 mA.

MECHANICAL

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

Type No. 1N996

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

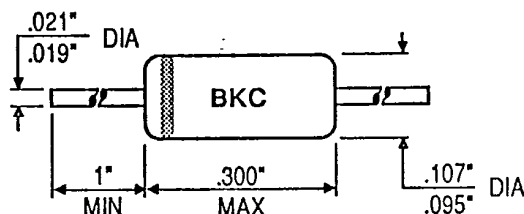
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	5 V		15	μA	25 °C
Forward Voltage	V _f	40 mA		.8	V	25 °C
Reverse Recovery	T _{rr}	See note		300		

NOTE: I_f = 5, V_r = -10, Recover to .5 mA.

MECHANICAL

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

Type No. 1N3110

T-01-07

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FEATURES

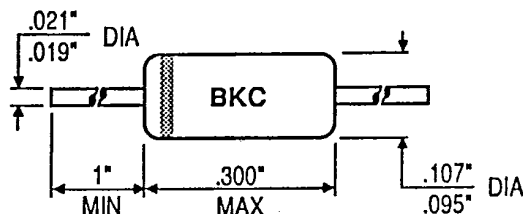
Low forward voltage drop—low power consumption
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Very low noise level
Metallurgically bonded

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

Peak Inverse Voltage	8 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	8		V	25 °C
Reverse Current	I _r	8 V		20	μA	25 °C
Reverse Current	I _r	8 V		100	μA	65 °C
Forward Voltage	V _f	5 mA		0.45	V	25 °C

MECHANICAL

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

Type No. 1N3125

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

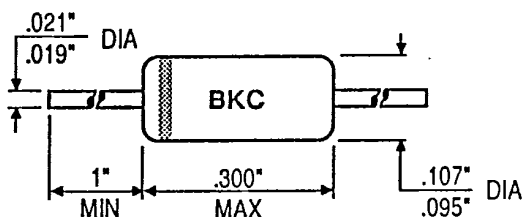
Metallurgically bonded

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

Peak Inverse Voltage	40 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	40		V	25 °C
Reverse Current	I _r	40 V		100	μA	25 °C
Reverse Current	I _r	20 V		125	μA	71 °C
Forward Voltage	V _f	5 mA		0.4	V	25 °C

MECHANICAL

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

Type No. 1N3146

T-03-07

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FEATURES

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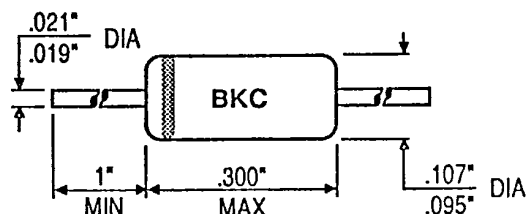
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	20 V		100	μA	25 °C
Forward Voltage	V _f	50 mA		1	V	25 °C
Reverse Recovery	T _{rr}	See note		2		

NOTE: I_f = 10, V_r = -6, Recover to 3 kΩ.

MECHANICAL

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

BKC INTERNATIONAL ELECTRONICS, INC.
6 LAKE STREET, LAWRENCE, MA 01841
TEL NO. (508) 681-0392

ENGINEERING DATA SHEET
for
1N3287
GOLD BONDED, GERMANIUM, DIODE

ABSOLUTE MAXIMUM RATINGS

PEAK REVERSE VOLTAGE	6V
RECURRENT PEAK FORWARD (60 CYCLES, 1/2 WAVE)	200mA
AVERAGE FORWARD CURRENT	50mA
SURGE CURRENT (1 SECOND)	500mA
POWER DISSIPATION	80mW
OPERATING & STORAGE TEMPERATURE	-65 TO +90 DEGREES CELSIUS

CHARACTERISTICS

PARAMETER	VF	IR	PIV	ID
CONDITION	1.0mA	2.0V	1mA	*
TEMPERATURE	25C	25C	25C	25C
LIMITS				
MIN.	.208V	----	6V	----
MAX.	.312V	15uA	----	60ohms

*ID (DYNAMIC IMPEDANCE) CONDITIONS ARE 1mA, 60 Hz, 0.1mA AC

PACKAGE CONFIGURATION

GLASS CASE JEDEC DO-7
(INCHES)

LEAD LENGTH	1.125 MAX
LEAD DIAMETER	.020 +-.002
BODY LENGTH	.270 MAX.
BODY DIAMETER	.095 MAX.

MARKING

BLACK CATHODE BAND & BLACK DIGITAL PRINT

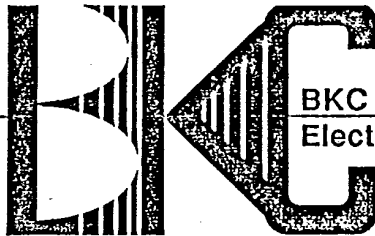
Type No. 1N3287W USN

T-01-07

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FEATURES

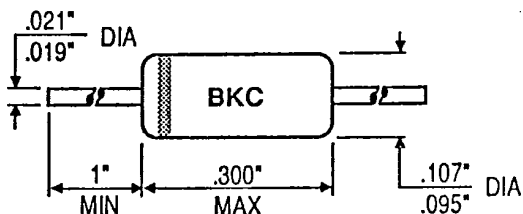
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Very low noise level
Metallurgically bonded

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

Peak Inverse Voltage	6 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	6		V	25 °C
Reverse Current	I _r	2 V		15	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. 1N3465

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FEATURES

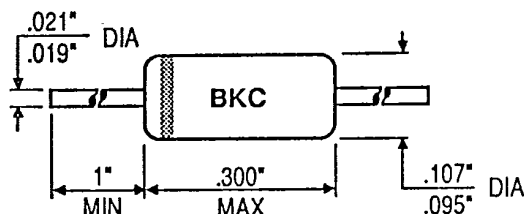
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Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

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	45 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. 1N3466

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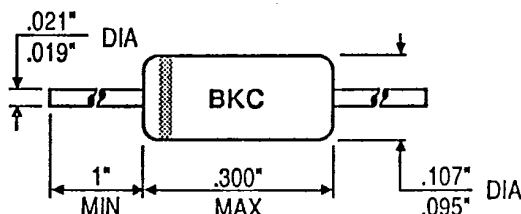
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Thirty years of proven reliability—one million hours mean time between failures (MTBF)
Very low noise level
Metallurgically bonded

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

Peak Inverse Voltage	40 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	40		V	25 °C
Reverse Current	I _r	30 V		15	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. 1N3467

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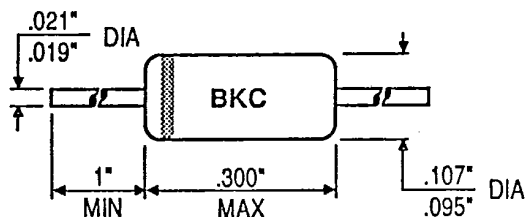
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	10 V		15	μA	25 °C
Forward Voltage	V _f	20 mA		.5	V	25 °C
Reverse Recovery	T _{rr}	See note		2		

NOTE: I_f = 10, V_r = -6, Recover to 1 Ω.

MECHANICAL

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

Type No. 1N3468

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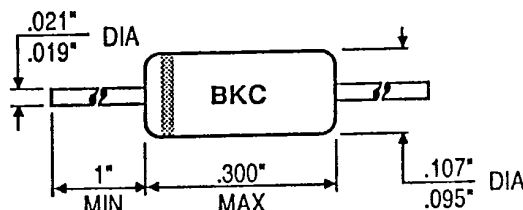
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	10 V		60	μA	25 °C
Forward Voltage	V _f	20 mA		.5	V	25 °C
Reverse Recovery	T _{rr}	See note		2		

NOTE: I_f = 10, V_r = -6, Recover to 1 Ω.

MECHANICAL

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