



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

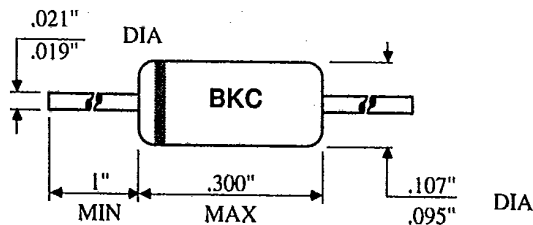
ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage	60V	@ 25 °C unless otherwise specified
Peak Forward Current	500mA	
Operating Temperature Range	-65°C to 85°C	
Average Power Dissipation	80mW	

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)

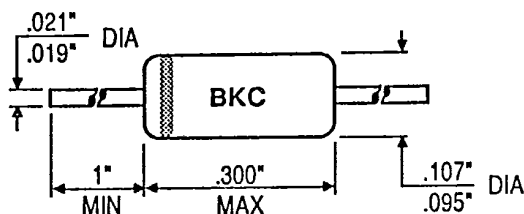
Peak Inverse Voltage	8 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

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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Very low noise level
Metallurgically bonded

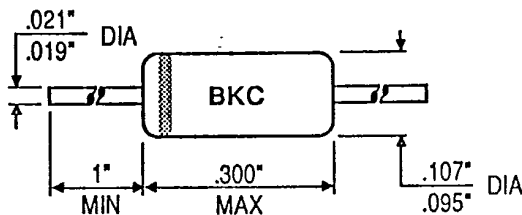
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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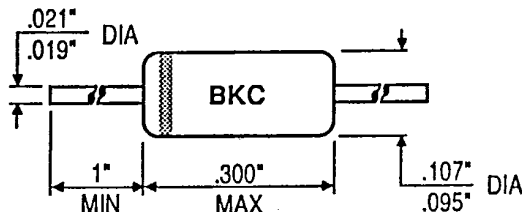
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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

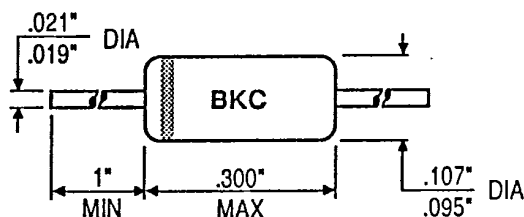
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ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	μ A	25 °C
Reverse Current	I_r	20 V		125	μ A	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

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FEATURES

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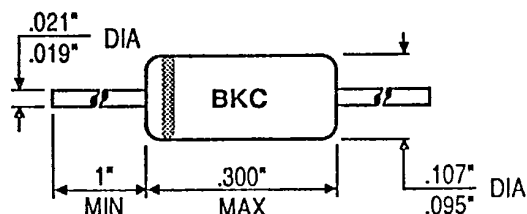
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	μ A	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 k Ω .

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	V _F	I _R	PIV	I _D
COND	1.0mA	2.0V	1mA	*
TA	25C	25C	25C	25C
LIMITS				
MIN.	.208V	----	6V	----
MAX.	.312V	15uA	----	60ohms

*I_D (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

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FEATURES

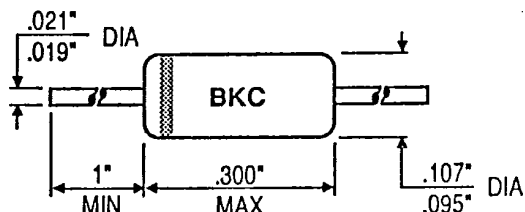
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Metallurgically bonded

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	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. 1N3465

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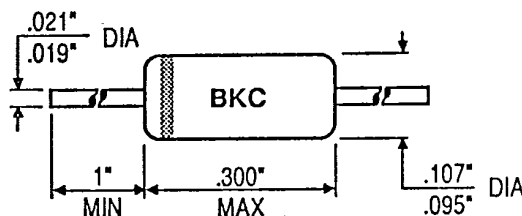
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	45 V		20	μA	25 °C
Forward Voltage	V _f	200 mA		1	V	25 °C

MECHANICAL



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Type No. 1N3466

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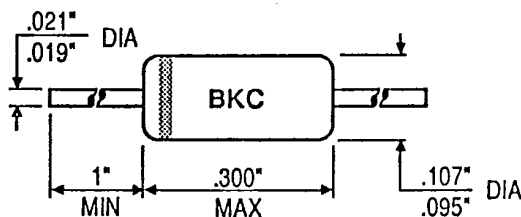
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ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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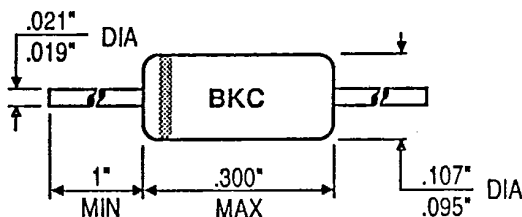
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	μ A	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)

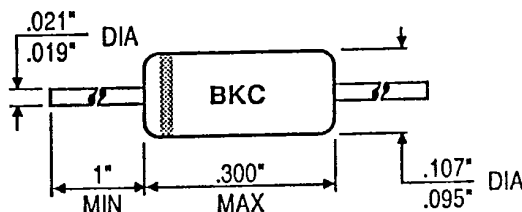
Peak Inverse Voltage	15 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

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.