

# Gold Bond Germanium Diodes

## TYPE GL607

**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

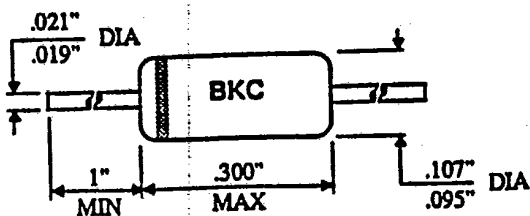
### ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage -	10V	@ 25 C
Peak Forward Current -	300mA	unless
Operating Temperature Range -	50 C to 75 C	otherwise
Average Power Dissipation -	80 mW	specified

### ELECTRICAL CHARACTERISTICS

	Symbol	Condition	Min.	Max.	Unit	T C
Peak Inverse	PIV	100uA	10		volts	25 C
Reverse Current	Ir	1V		2	uA	25 C
Forward Voltage	Vf	1mA		.34	volts	25 C
Forward Voltage	Vf	10mA		.45	volts	25 C
Capacitance	C	0.1V, 1mHz		3	pf	25 C

### 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

TYPE  
0A47  
GOLD BONDED, GERMANIUM DIODE

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ABSOLUTE MAXIMUM RATINGS

PEAK REVERSE VOLTAGE	25V
RECURRENT PEAK FORWARD	100mA
POWER DISSIPATION	80mW
OPERATING TEMPERATURE	-65 TO +75 DEGREES CELSIUS
STORAGE TEMPERATURE	+90 DEGREES CELSIUS

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CHARACTERISTICS

PARAMETER	VF	IR	PIV	Trr
COND	10mA	25V	100uA	*
TA	25C	25C	25C	25C
LIMITS				
MIN	-----	-----	25V	-----
MAX	.450V	100uA	-----	70nS

\*Trr CONDITIONS ARE QS= 10mA, PC= 150 MAX

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PACKAGE CONFIGURATION

GLASS CASE JEDEC DO-7  
(INCHES)

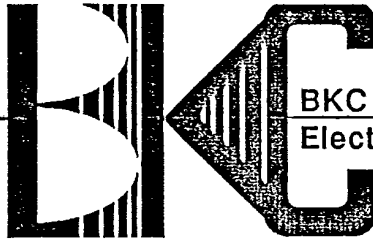
LEAD LENGTH	1.065 MAX
LEAD DIAMETER	.020 +/- .002
BODY LENGTH	.275 MAX.
BODY DIAMETER	.100 MAX.

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MARKING

BLACK CATHODE BAND & BLACK DIGITAL PRINT

6 Lake Street  
PO Box 1436  
Lawrence, MA 01841



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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**

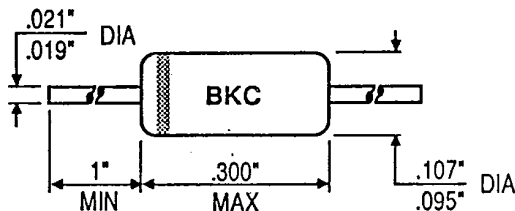
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

**Peak Inverse Voltage** 30 Volts  
**Peak Forward Current** 500 mA  
**Operating Temperature** - 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	$I_r$	10 V		20	$\mu$ A	25 °C
Forward Voltage	$V_f$	10 mA		1	V	25 °C

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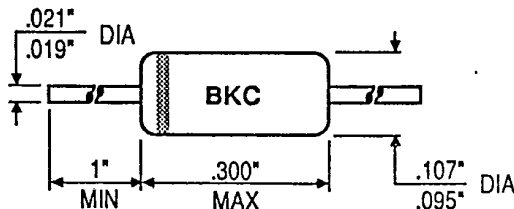
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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

## ELECTRICAL CHARACTERISTICS

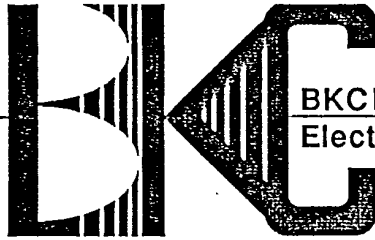
	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	115		V	25 °C
Reverse Current	I <sub>r</sub>	100 V		80	μA	25 °C
Forward Voltage	V <sub>f</sub>	10 mA		1.2	V	25 °C

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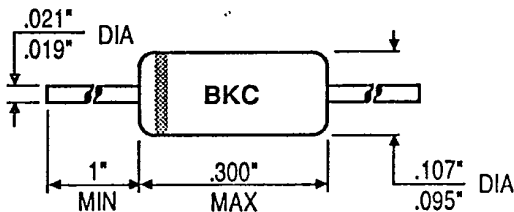
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Peak Inverse Voltage	115 Volts
Peak Forward Current	500 mA
Operating Temperature	- 65 °C to 85 °C
Average Power Dissipation	80 mW

## ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	115		V	25 °C
Reverse Current	I <sub>r</sub>	40 V		30	μA	25 °C
Forward Voltage	V <sub>f</sub>	10 mA		1.05	V	25 °C

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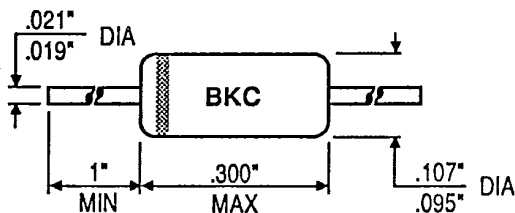
Peak Inverse Voltage	20 Volts
Peak Forward Current	500 mA
Operating Temperature	- 65 °C to 85 °C
Average Power Dissipation	80 mW

## ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	20		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		20	μA	25 °C
Forward Voltage	V <sub>f</sub>	100 mA		0.75	V	25 °C
Reverse Recovery	T <sub>rr</sub>	See note		70		

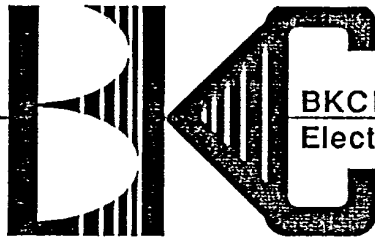
**NOTE:** I<sub>f</sub> = 10, V<sub>r</sub> = 1, Recover to 10 mA.

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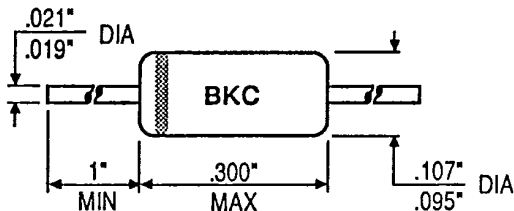
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

**Peak Inverse Voltage** 55 Volts  
**Peak Forward Current** 500 mA  
**Operating Temperature** - 65 °C to 85 °C  
**Average Power Dissipation** 80 mW

## ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
<b>Peak Inverse Voltage</b>	PIV	1 mA	55		V	25 °C
<b>Reverse Current</b>	$I_r$	40 V		30	$\mu$ A	25 °C
<b>Forward Voltage</b>	$V_f$	10 mA		1.2	V	25 °C

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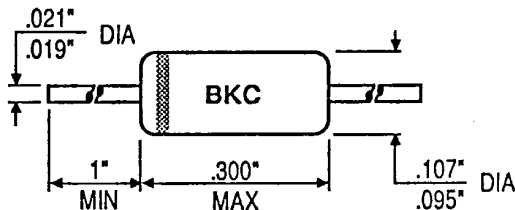
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	140 Volts
Peak Forward Current	500 mA
Operating Temperature	- 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	140		V	25 °C
Reverse Current	$I_r$	100 V		55	$\mu$ A	25 °C
Forward Voltage	$V_f$	10 mA		1.4	V	25 °C

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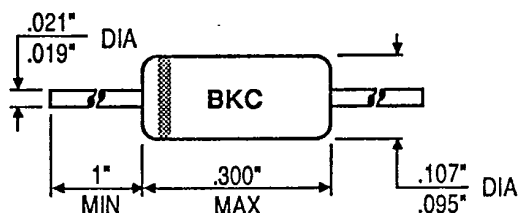
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Peak Inverse Voltage	30 Volts
Peak Forward Current	500 mA
Operating Temperature	- 65 °C to 85 °C
Average Power Dissipation	80 mW

## ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	30		V	25 °C
Reverse Current	$I_r$	10 V		20	$\mu$ A	25 °C
Forward Voltage	$V_f$	100 mA		0.75	V	25 °C

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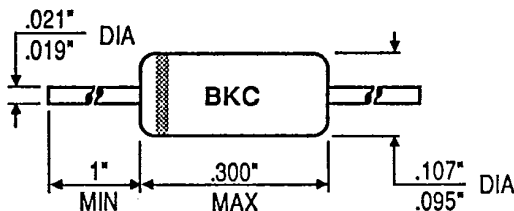
## ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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

## ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
<b>Peak Inverse Voltage</b>	PIV	1 mA	100		V	25 °C
<b>Reverse Current</b>	I <sub>r</sub>	60 V		20	μA	25 °C
<b>Forward Voltage</b>	V <sub>f</sub>	100 mA		0.85	V	25 °C

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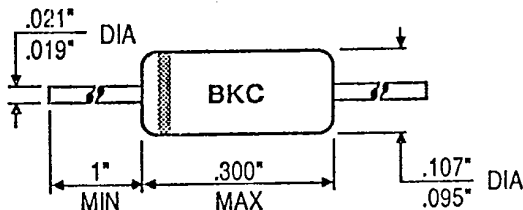
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Peak Inverse Voltage	60 Volts
Peak Forward Current	500 mA
Operating Temperature Range	- 65 °C to 85 °C
Average Power Dissipation	80 mW

## ELECTRICAL CHARACTERISTICS

	Symbol	Conditions	Min	Max	Unit	T °C
Peak Inverse Voltage	PIV	1 mA	60		V	25 °C
Reverse Current	I <sub>r</sub>	10 V		15	μA	25 °C
Reverse Current	I <sub>r</sub>	50 V		800	μA	°C
Forward Voltage	V <sub>f</sub>	8.5 mA		1	V	25 °C

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