

SD401A/SMD101B/SMD101C

1N167 (230)



6 Lake Street
PO Box 1436
Lawrence, MA 01841
(617) 681-0392
(508) 681-0392

Gold Bond Germanium Diodes

TYPE G1607

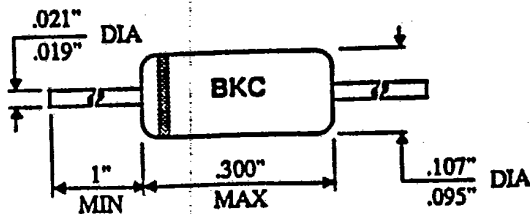
- FEATURES Low forward voltage drop
 --low power consumption
 Thirty years of proven reliability
 --one million hours mean time between failures (MTBF)
 Very low noise level
 Metallurgically bonded

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 Voltage	PIV	100uA	10		volts	25 C
Reverse Current	I _r	1V		2	uA	25 C
Forward Voltage	V _f	1mA		.34	volts	25 C
Forward Voltage	V _f	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
DA47
GOLD BONDED, GERMANIUM DIODE

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

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 IS= 10mA, PC= 150 MAX

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.

MARKING

BLACK CATHODE BAND & BLACK DIGITAL PRINT

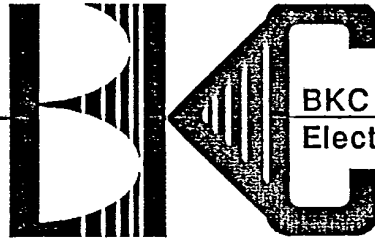
Type No. OA90

T-01-07

GOLD BONDED GERMANIUM DIODE

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FEATURES

- Low forward voltage drop—low power consumption
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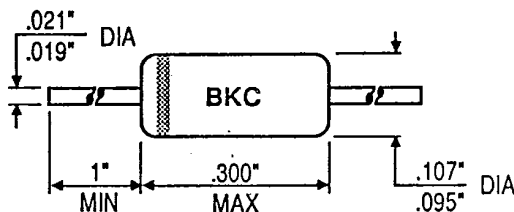
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	30 Volts
Peak Forward Current	500 mA
Operating Temperature	- 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	μA	25 °C
Forward Voltage	V _f	10 mA		1	V	25 °C

MECHANICAL



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Type No. OA91

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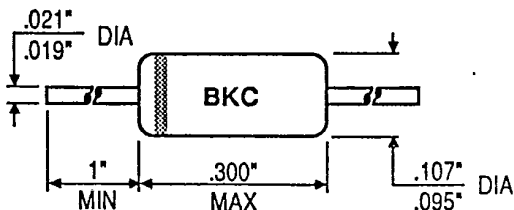
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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 _r	100 V		80	μA	25 °C
Forward Voltage	V _f	10 mA		1.2	V	25 °C

MECHANICAL



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

Type No. OA95

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- Metallurgically bonded

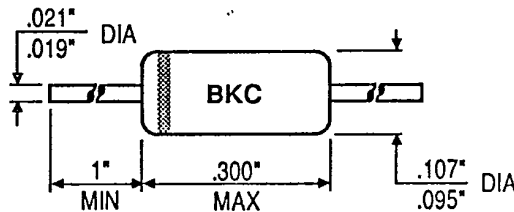
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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 _r	40 V		30	µA	25 °C
Forward Voltage	V _f	10 mA		1.05	V	25 °C

MECHANICAL



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

Type No. OA180

T-03-07

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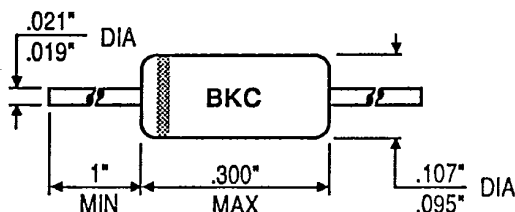
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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 _r	10 V		20	μA	25 °C
Forward Voltage	V _f	100 mA		0.75	V	25 °C
Reverse Recovery	T _{rr}	See note		70		

NOTE: I_f = 10, V_r = 1, Recover to 10 mA.

MECHANICAL

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

Type No. OA1154

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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

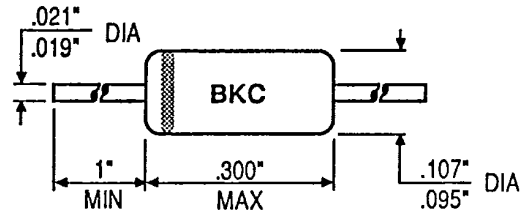
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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
Peak Inverse Voltage	PIV	1 mA	55		V	25 °C
Reverse Current	I _r	40 V		30	μA	25 °C
Forward Voltage	V _f	10 mA		1.2	V	25 °C

MECHANICAL



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

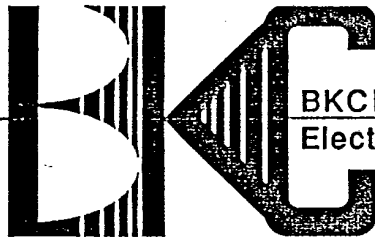
Type No. OA1161

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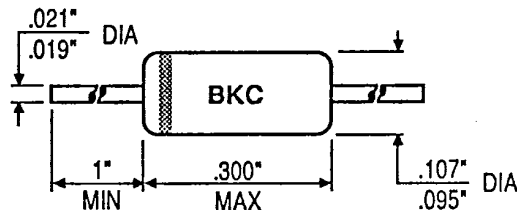
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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	μA	25 °C
Forward Voltage	V _f	10 mA		1.4	V	25 °C

MECHANICAL



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

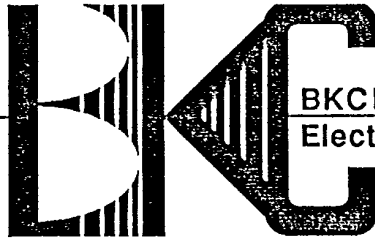
Type No. OA1180

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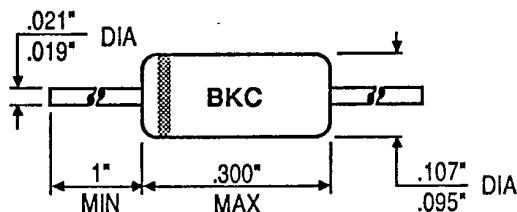
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	30 Volts
Peak Forward Current	500 mA
Operating Temperature	- 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	µA	25 °C
Forward Voltage	V _f	100 mA		0.75	V	25 °C

MECHANICAL



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

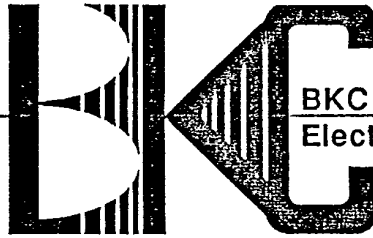
Type No. OA1182

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FEATURES

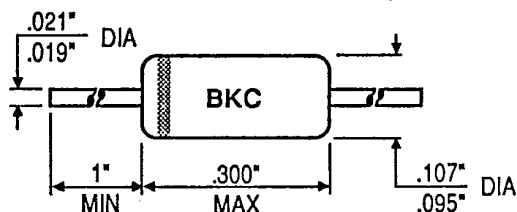
Low forward voltage drop—low power consumption
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Very low noise level
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ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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
Peak Inverse Voltage	PIV	1 mA	100		V	25 °C
Reverse Current	I _r	60 V		20	μA	25 °C
Forward Voltage	V _f	100 mA		0.85	V	25 °C

MECHANICAL

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

Type No. 1N34

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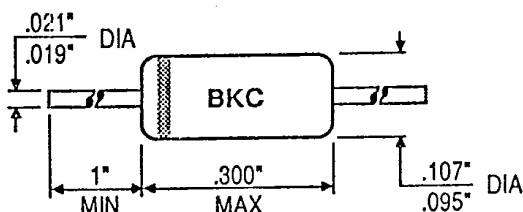
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

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		15	μA	25 °C
Reverse Current	I _r	50 V		800	μA	°C
Forward Voltage	V _f	8.5 mA		1	V	25 °C

MECHANICAL



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