

Type No. 1N100
GOLD BONDED GERMANIUM DIODE

6 Lake Street
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Lawrence, MA 01841

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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

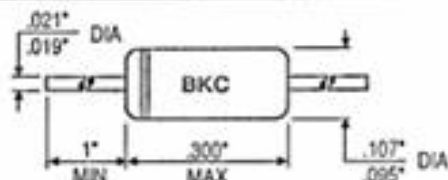
ABSOLUTE MAXIMUM RATINGS (at 25 °C, unless otherwise specified)

Peak Inverse Voltage	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	50 V		5	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.

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

ENGINEERING DATA SHEET

TYPE

1N100A

GOLD BONDED, GERMANIUM, DIODE

ABSOLUTE MAXIMUM RATINGS

PEAK REVERSE VOLTAGE	100V
CONTINUOUS INVERSE OPERATING VOLTAGE	80V
RECURRENT PEAK FORWARD (60 CYCLES, 1/2 WAVE)	250mA
FORWARD SURGE CURRENT (1 SECOND)	400mA
POWER DISSIPATION	80mW
DERATING FACTOR ABOVE +25 DEGREES CELSUIS	10mW/10 DEGREES CELSIUS
OPERATING TEMPERATURE	-78 TO +90 DEGREES CELSIUS
STORAGE TEMPERATURE	-78 TO +100 DEGREES CELSIUS

CHARACTERISTICS

PARA	VF	IR	IR	PIV
COND	40mA	5V	50V	1mA
TA	25C	25C	25C	25C
LIMITS				
MIN.	---	---	---	100V
MAX.	1V	5uA	50uA	---

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