

New Jersey Semi-Conductor Products, Inc.

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OA47 Gold Bonded Germanium Diode

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

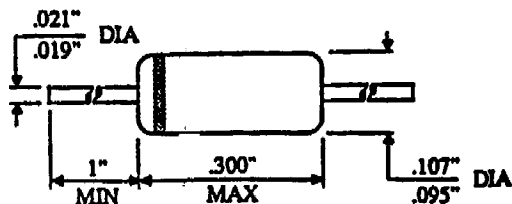
ABSOLUTE MAXIMUM RATINGS

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

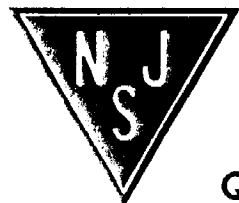
CHARACTERISTICS	Symbol	Condition	Min.	Max.	Unit	T C
Peak Inverse	PIV	100uA	10		volts	25 C
Reverse Current	Ir	1V		2	uA	25 C
Forward Voltage	Vf	1mA		.34	volts	25 C
Forward Voltage	Vf	10mA		.45	volts	25 C
Capacitance	C	0.1V, 1mHz		3	pf	25 C

MECHANICAL



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors



TYPE
0A47
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 QS= 10mA, FC= 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
