

## 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

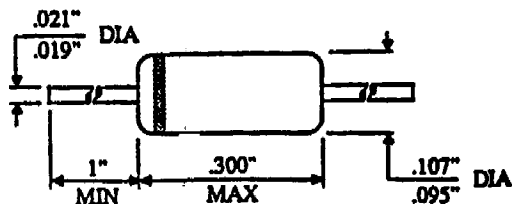
### ABSOLUTE MAXIMUM RATINGS

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
PIV	100uA	10		volts	25 C
Ir	1V		2	uA	25 C
Vf	1mA		.34	volts	25 C
Vf	10mA		.45	volts	25 C
C	0.1V, 1mHz		3	pf	25 C

### MECHANICAL



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**Quality Semi-Conductors**

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	V <sub>F</sub>	I <sub>R</sub>	PIV	T <sub>rr</sub>
CONDITION	10mA	25V	100uA	*
TEMPERATURE	25C	25C	25C	25C
LIMITS				
MIN	-----	-----	25V	-----
MAX	.450V	100uA	-----	70nS

\*T<sub>rr</sub> CONDITIONS ARE Q<sub>S</sub>= 10mA, P<sub>C</sub>= 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

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Datasheets for electronic components.