

**BY228**

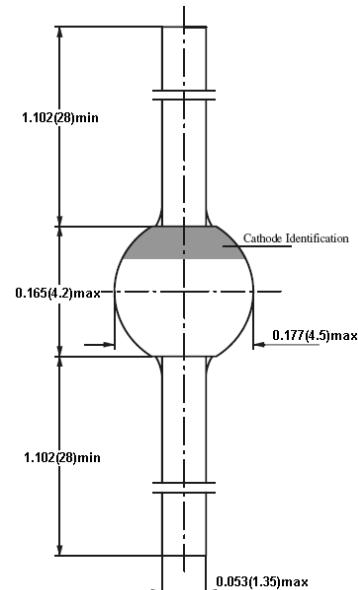
**SINTERED GLASS JUNCTION  
AVALANCHE RECTIFIER**  
VOLTAGE:1500V CURRENT: 2.5A

**FEATURE**

Glass passivated  
High maximum operating temperature  
Low leakage current  
Excellent stability

**MECHANICAL DATA**

Case: SOD-64 sintered glass case  
Terminal: Plated axial leads solderable per  
MIL-STD 202E, method 208C  
Polarity: color band denotes cathode end  
Mounting position: any

**SOD-64**

Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,  
for capacitive load, derate current by 20%)

	SYMBOL	BY228	units
Maximun Non-Repetitive Peak Reverse Voltage	Vrsm	1650	V
Maximun Repetitive Peak Reverse Voltage	Vrrm	1650	V
Maximum Continuous Reverse Voltage	Vr	1500	V
Maximum RMS Voltage	Vrms	1050	V
Maximum DC blocking Voltage	Vdc	1500	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length at Ta =50°C	If(av)	2.5	A
Non-Repetitive Peak Forward Surge Current at t=10ms half sinewave	Ifsm	50.0	A
Maximum Instantaneous Forward Voltage at 5.0A	Vf	1.50	V
Maximum DC Reverse Current Ta =25°C Ta =150°C	Ir	5.0 150.0	µA
Typical Reverse Recovery Time (Note 1)	Trr	1000	nS
Typical Thermal Resistance (Note 2)	Rth(ja)	75.0	K /W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	°C

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Device mounted on an epoxy-glass printed-circuit board, 1.5mm thick

## RATINGS AND CHARACTERISTIC CURVES BY228

FIG. 1 - FORWARD CURRENT DERATING CURVE

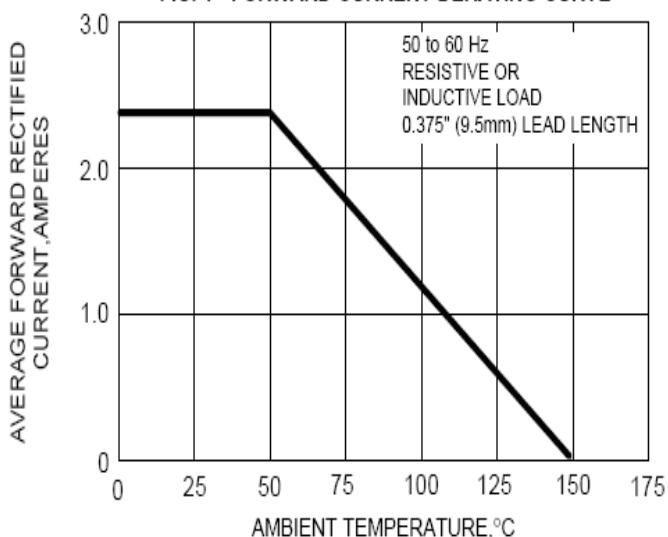


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

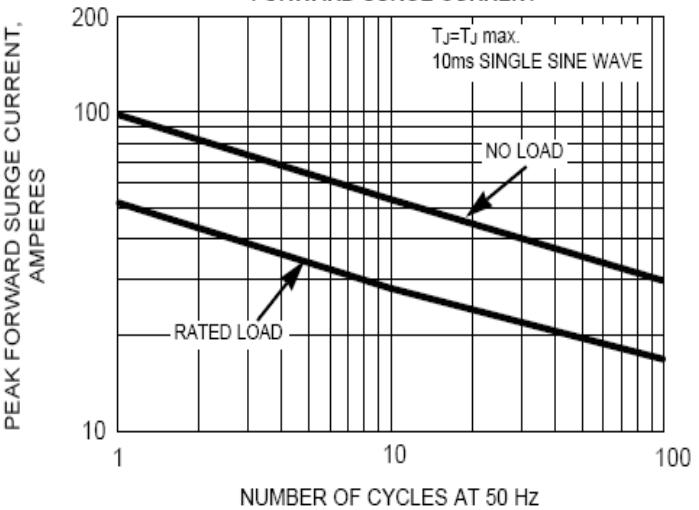


FIG. 3 - MAXIMUM PEAK REPETITIVE FORWARD SURGE CURRENT

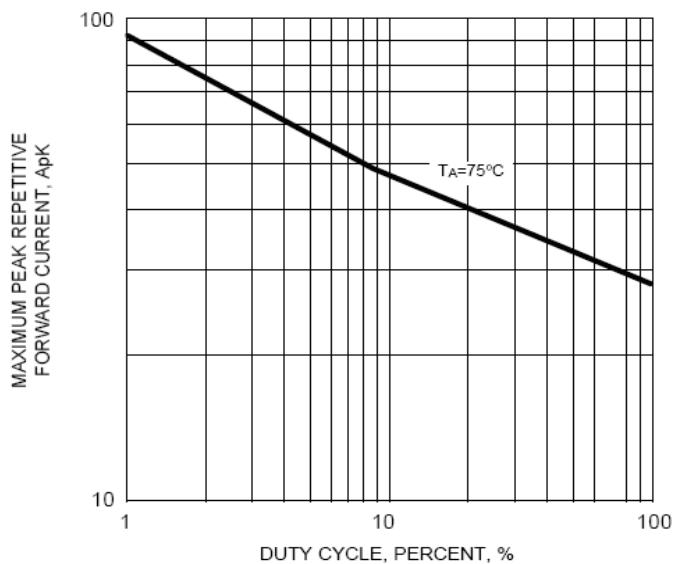


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

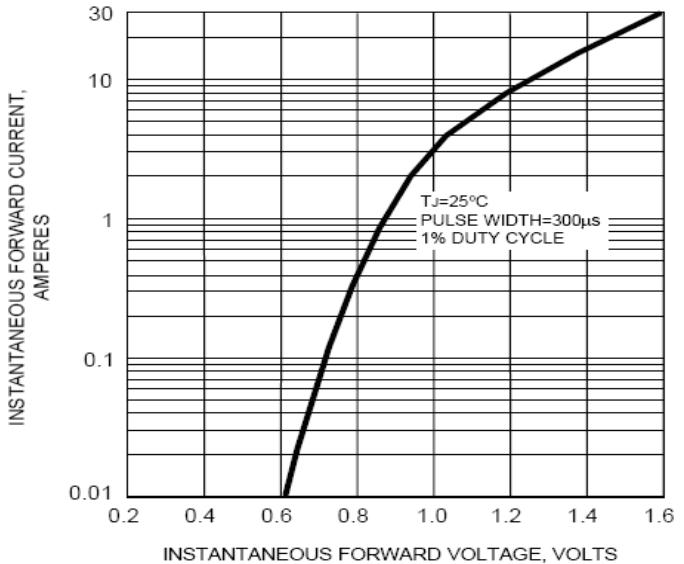


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

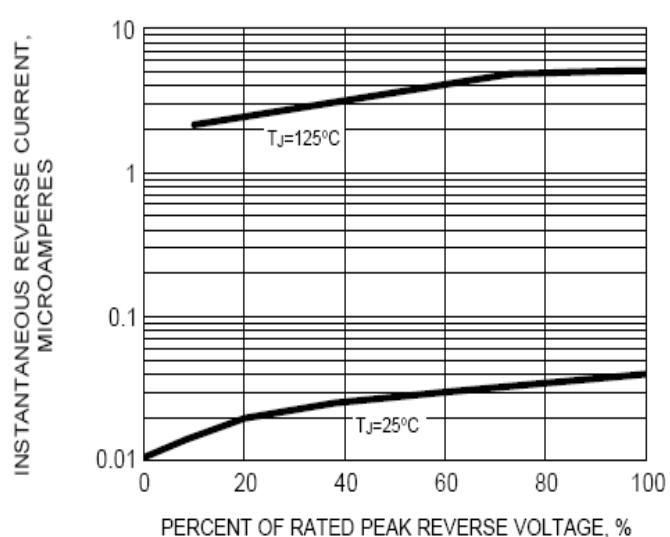


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

