

## BY228

### SINTERED GLASS JUNCTION AVALANCHE RECTIFIER

VOLTAGE:1500V

CURRENT: 2.5A



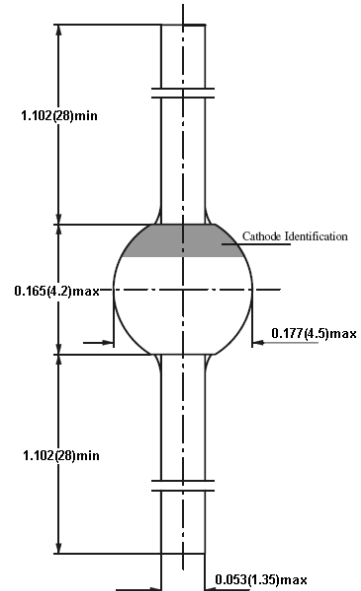
#### FEATURE

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%)

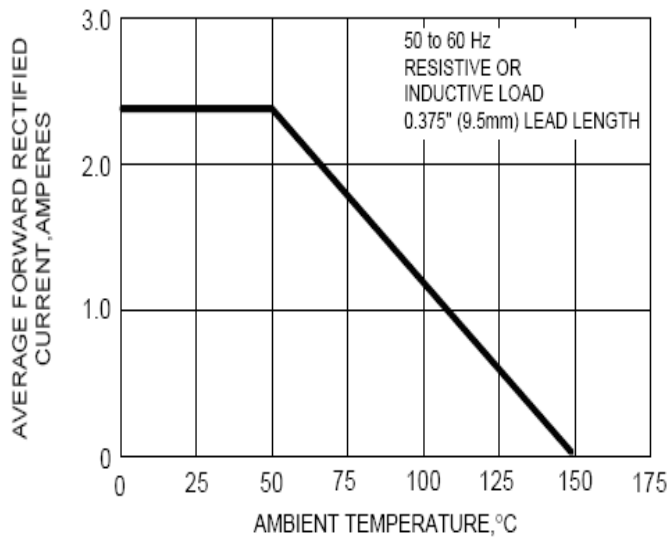
	SYMBOL	BY228	units
Maximum Non-Repetitive Peak Reverse Voltage	V <sub>rsm</sub>	1650	V
Maximum Repetitive Peak Reverse Voltage	V <sub>rrm</sub>	1650	V
Maximum Continuous Reverse Voltage	V <sub>r</sub>	1500	V
Maximum RMS Voltage	V <sub>rms</sub>	1050	V
Maximum DC blocking Voltage	V <sub>dc</sub>	1500	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length at T <sub>a</sub> =50°C	I <sub>f(av)</sub>	2.5	A
Non-Repetitive Peak Forward Surge Current at t=10ms half sinewave	I <sub>fsm</sub>	50.0	A
Maximum Instantaneous Forward Voltage at 5.0A	V <sub>f</sub>	1.50	V
Maximum DC Reverse Current at rated DC blocking voltage T <sub>a</sub> =25°C T <sub>a</sub> =150°C	I <sub>r</sub>	5.0 150.0	μA
Typical Reverse Recovery Time (Note 1)	T <sub>rr</sub>	1000	nS
Typical Thermal Resistance (Note 2)	R <sub>th(ja)</sub>	75.0	K /W
Storage and Operating Junction Temperature	T <sub>stg</sub> , T <sub>j</sub>	-65 to +175	°C

Note:

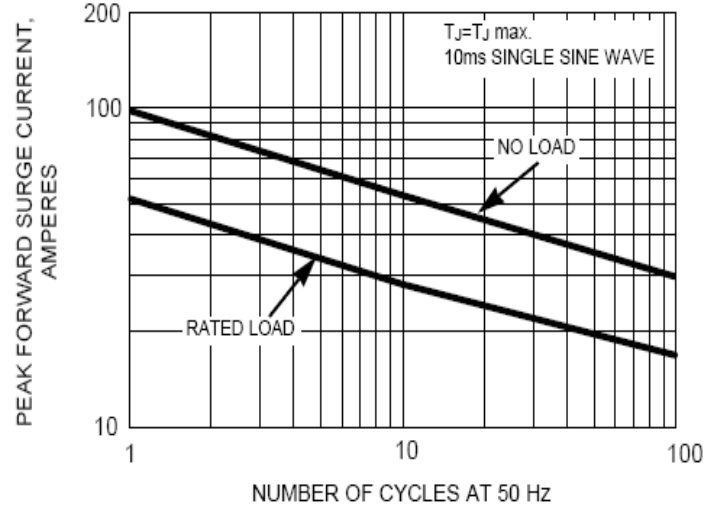
- Reverse Recovery Condition I<sub>f</sub> =0.5A, I<sub>r</sub> =1.0A, I<sub>rr</sub> =0.25A
- Device mounted on an epoxy-glass printed-circuit board, 1.5mm thick

## RATINGS AND CHARACTERISTIC CURVES BY228

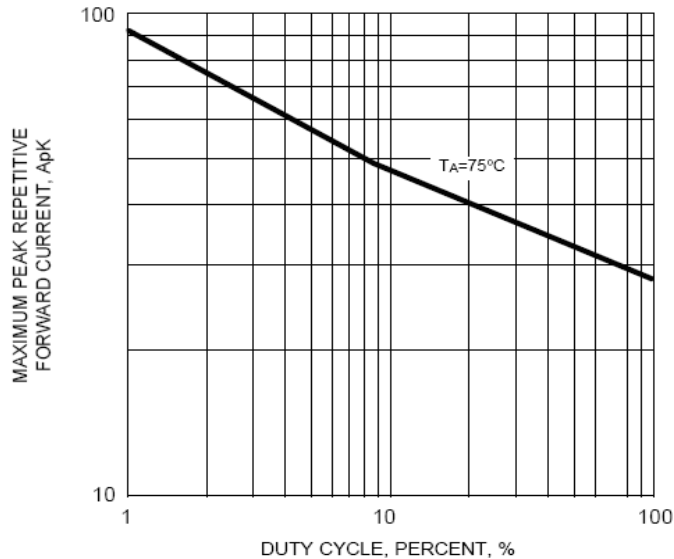
**FIG. 1 - FORWARD CURRENT DERATING CURVE**



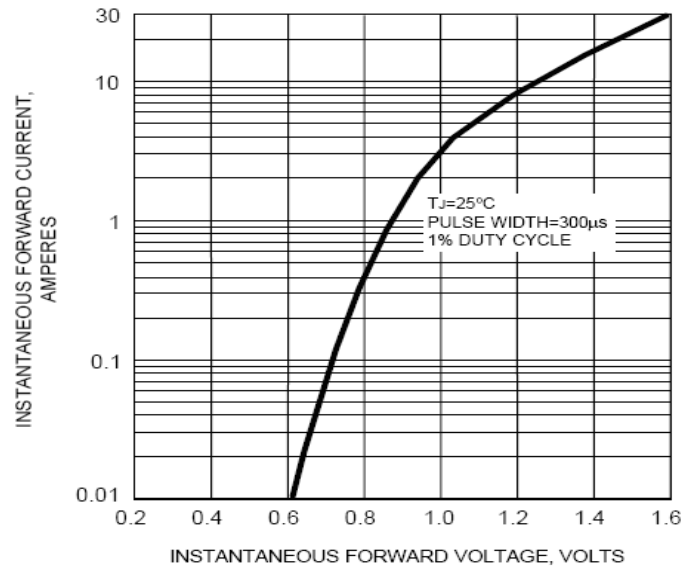
**FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



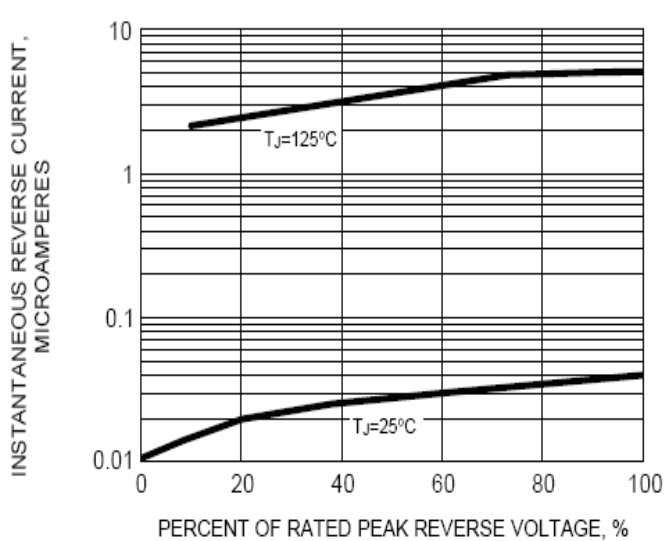
**FIG. 3 - MAXIMUM PEAK REPETITIVE FORWARD SURGE CURRENT**



**FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 5 - TYPICAL REVERSE CHARACTERISTICS**



**FIG. 6 - TYPICAL JUNCTION CAPACITANCE**

