

# GFZ10K

## SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE: 800V

CURRENT: 1.0A



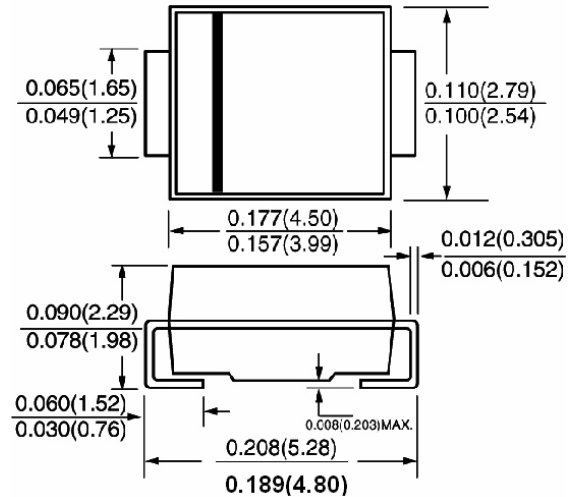
### FEATURE

Ideal for surface mount pick and place application  
Low profile package  
Built-in strain relief  
High surge capability  
High temperature soldering guaranteed  
260°C/10sec/at terminals

### MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C  
Case: Molded with UL-94 class V-0 recognized Flame Retardant Epoxy  
Polarity: color band denotes cathode

### SMA / DO-214AC



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%)

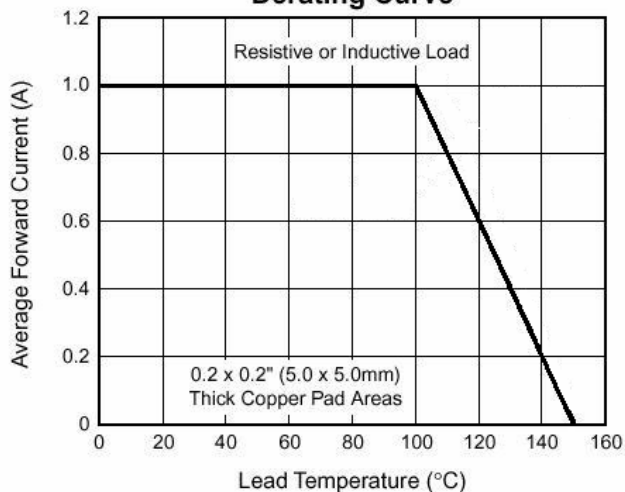
	SYMBOL	GFZ10K	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	800	V
Maximum RMS Voltage	V <sub>rms</sub>	560	V
Maximum DC blocking Voltage	V <sub>dc</sub>	800	V
Maximum Average Forward Rectified Current 3/8"lead length at T <sub>L</sub> =100°C	I <sub>f(av)</sub>	1.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	30.0	A
Maximum Instantaneous Forward Voltage at rated Forward current	V <sub>f</sub>	1.1	V
Maximum DC Reverse Current at rated DC blocking voltage	I <sub>r</sub>	5.0 200.0	μA
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	15.0	pF
Typical Thermal Resistance (Note 2)	R <sub>th(jl)</sub>	30.0	°C/W
Storage and Operating Junction Temperature	T <sub>j</sub> , T <sub>stg</sub>	-50 to +150	°C

Note:

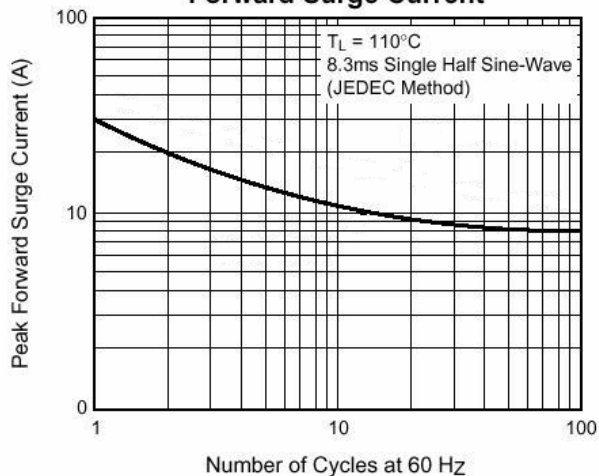
1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to terminal mounted on 5×5mm copper pad area

## RATINGS AND CHARACTERISTIC CURVES GFZ10K

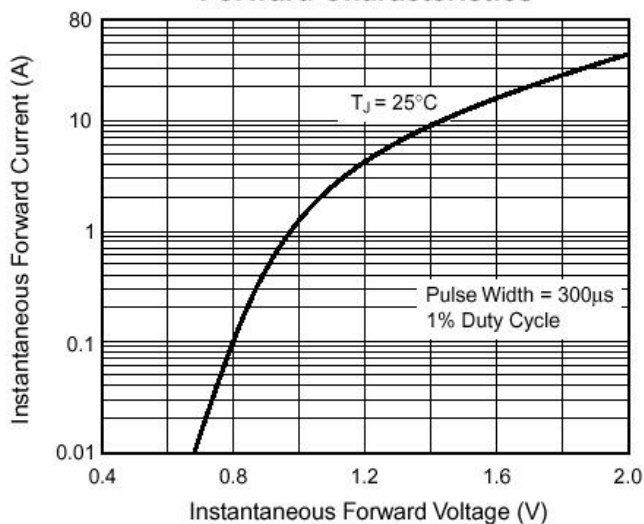
**Fig. 1 – Forward Current Derating Curve**



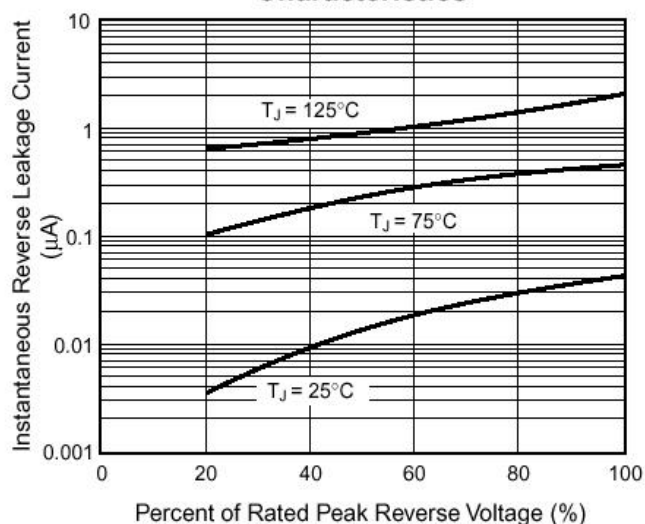
**Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current**



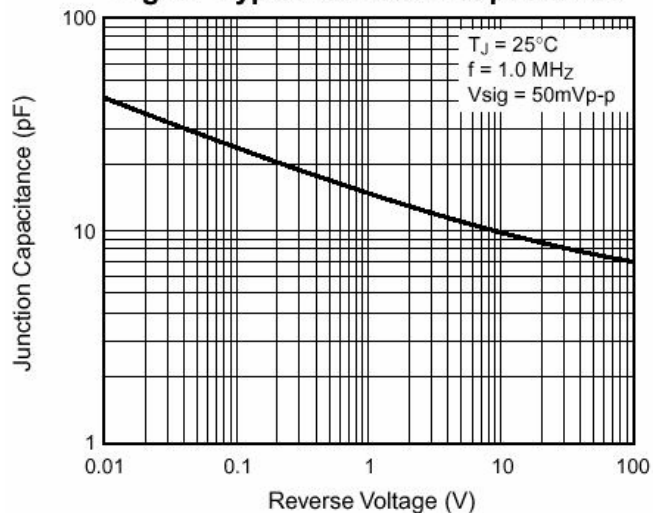
**Fig. 3 – Typical Instantaneous Forward Characteristics**



**Fig. 4 – Typical Reverse Leakage Characteristics**



**Fig. 5 – Typical Junction Capacitance**



**Fig. 6 – Transient Thermal Impedance**

