

GER20M

**SURFACE MOUNT
AVALANCHE GLASS PASSIVATED RECTIFIER
VOLTAGE: 1000V
CURRENT: 2.0A**



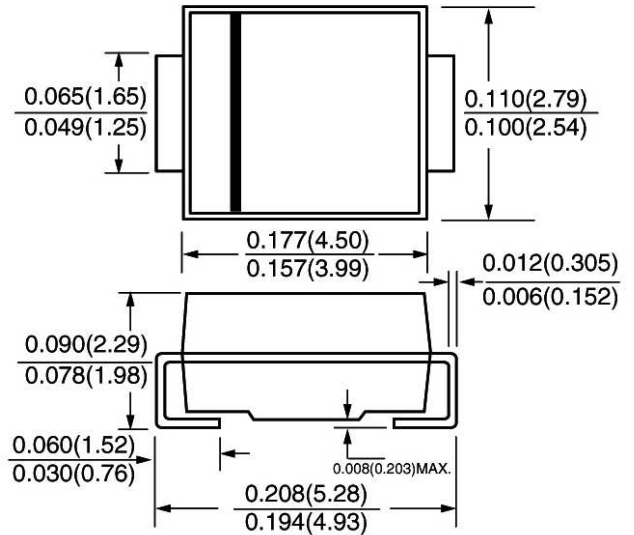
FEATURE

Ideal for surface mount pick and place application
Controlled avalanche characteristics
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
Marking: ER2M

SMA / DO-214AC



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	GER20M	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	1000	V
Maximum RMS Voltage	V _{rms}	700	V
Maximum DC blocking Voltage	V _{dc}	1000	V
Maximum Average Forward Rectified	I _{f(av)}	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	50.0	A
Maximum Forward Voltage at rated Forward current	V _f	1.1	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	2.0 100.0	uA
Pulse energy in avalanche mode, non repetitive (inductive load switch off) at I _{BR} =1A	E _r	20	mJ
Typical Junction Capacitance (Note 1)	C _j	30.0	pF
Typical Thermal Resistance (Note 2)	R _{th(jl)}	16.0	°C/W
Storage and Operating Temperature Range	T _j , T _{stg}	-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 7×7mm copper pad area

RATINGS AND CHARACTERISTIC CURVES GER20M

Fig. 1 — Forward Current Derating Curve

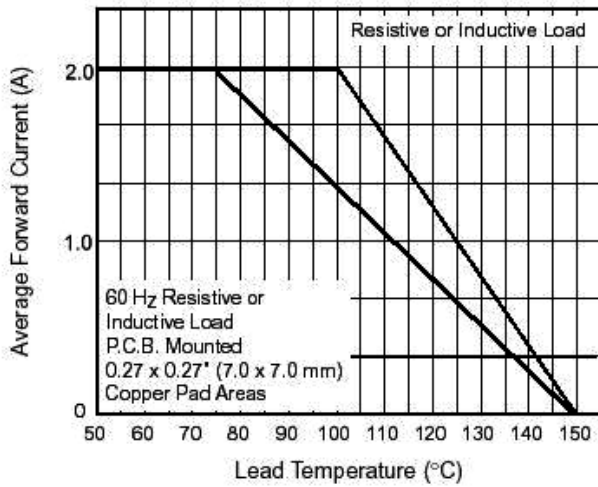


Fig. 2 — Maximum Non-Repetitive Peak Forward Surge Current

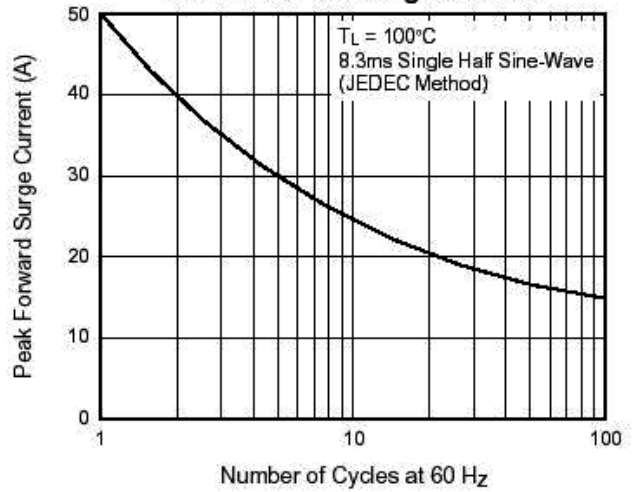


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

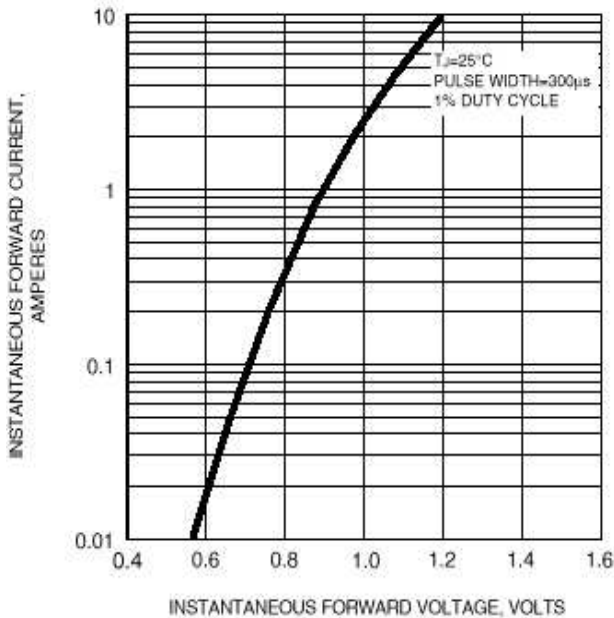


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

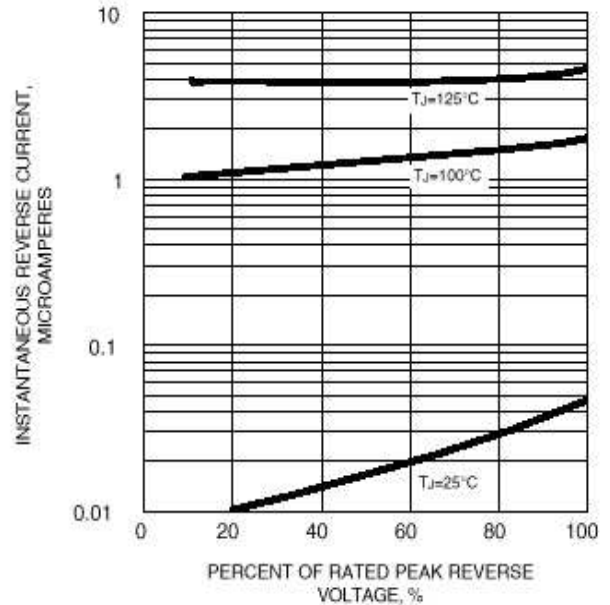


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

