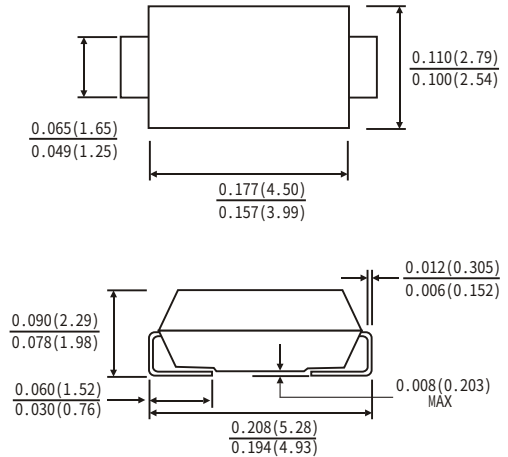


FEATURES

- GPRC(Glass Passivated Rectifier Chip) inside
- Glass passivated cavity-free junction Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- High temperature soldering:
250° C/10 seconds at terminals



SMA(DO-214AC)



MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic over glass passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Polarity: Color band denotes cathode end
- Weight: 0.002 oz., 0.064 g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave 60Hz.,resistive or inductive load. For capacitive load, derate by 20%.)

		Symbols	GF 10A	GF 10B	GF 10D	GF 10G	GF 10J	GF 10K	GF 10M	Units
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum average Forward Rectified Current 0.375"(9.5mm) lead length at TA=75°C		I(AV)	1.0							Amp
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method) TA=75°C		IFSM	30.0							Amps
Maximum Instantaneous Forward Voltage at 1.0 A		VF	1.0							Volts
Maximum Reverse current at rated DC Blocking Voltage	TA =25°C	IR	5.0							μA
	TA =100°C		50.0							
Typical Thermal resistance (Note 2)		RG JA	75							°C/W
		RG JL	27							
Typical Junction Capacitance(Note 1)		CJ	12							pF
Maximum DC Blocking Voltage temperature		TA	+150							°C
Operating and Storage temperature Range		TJ TSTG	-50 to+175							°C

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

2.Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm)lead length,
P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES GF10A THRU GF10M

FIG.1-FORWARD CURRENT DERATING CURVE

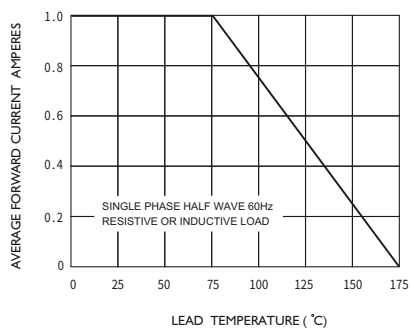


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

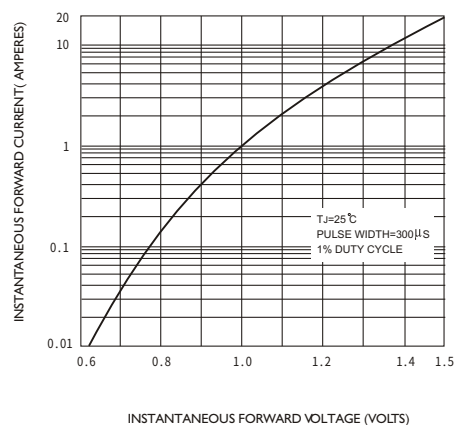


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

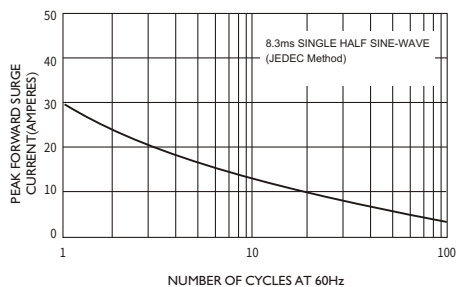


FIG.4-TYPICAL REVERSE CHARACTERISTICS

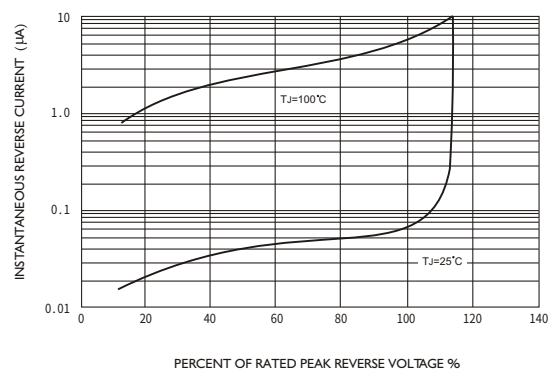


FIG.5-TYPICAL JUNCTION CAPACITANCE

