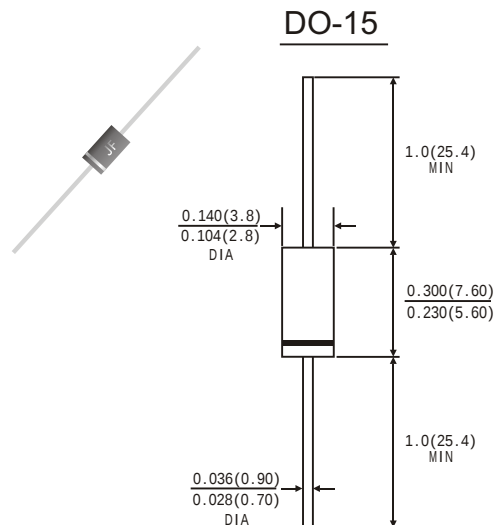


FEATURES

- GPRC(Glass Passivated Rectifier Chip) inside
- Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- 2.0Ampere operation at $T_a=75^\circ\text{C}$ and 55°C with no thermal runaway
- Typical IR less than 0.1uA
- High temperature soldering guaranteed:260 $^\circ\text{C}$ 10 seconds
- Plastic Package has Under writers Laboratory Flammability Classification 94V-0

MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014ounce, 0.39 gram



Dimensions in inches and (millimeters)

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	GP 20A	GP 20B	GP 20D	GP 20G	GP 20J	GP 20K	GP 20M	Units
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	300	400	600	200	1000	Volts
Maximum RMS Voltage		VRMS	35	70	210	280	420	140	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	300	400	600	200	1000	Volts
Maximum average Forward Rectified Current 0.375"(9.5mm)lead length at TA=75 °C		IAV)	2.0							Amps
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)		IFSM	65.0							Amps
Maximum Instantaneous Forward Voltage at 2.0 A		VF	1.0							Volts
Maximum Reverse current at rated DC Blocking Voltage	TA=25°C	IR	5.0							μ A
	TA=100°C		50.0							
Typical Thermal Resistance (Note 2)		Rθ JA	25.0							°C/W
Typical Junction Capacitance(Note 1)		CJ	25.0							pF
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 GP20A THRU GP20M

FIG.1-FORWARD CURRENT DERATING CURVE

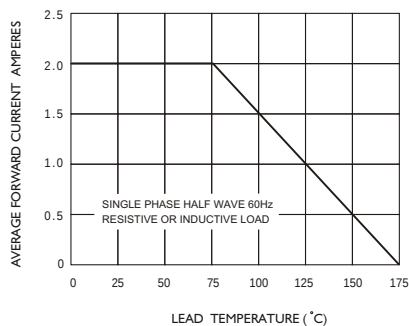


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

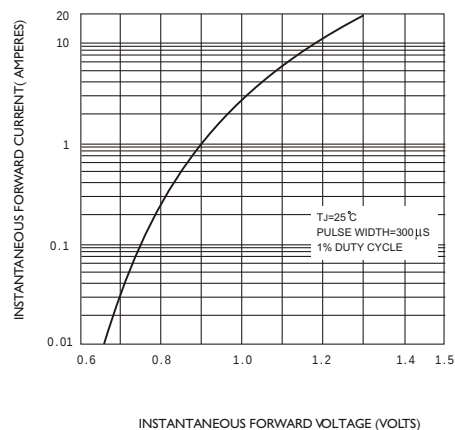


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

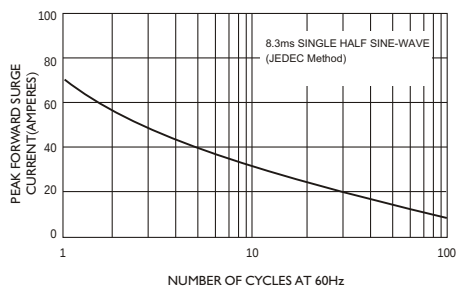


FIG.4-TYPICAL REVERSE CHARACTERISTICS

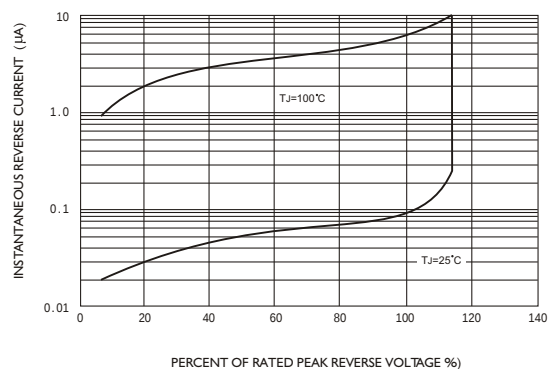


FIG.5-TYPICAL JUNCTION CAPACITANCE

