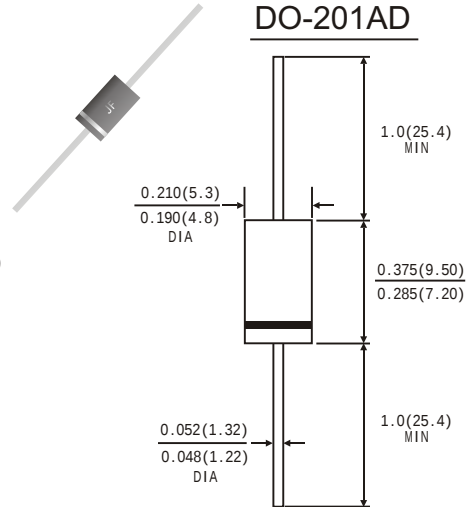


FEATURES

- GPRC(Glass Passivated Rectifier Chip) inside
- Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- 3 Ampere 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-201AD molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.042ounce, 1.19 grams



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 30A	GP 30B	GP 30D	GP 30G	GP 30J	GP 30K	GP 30M	Volts
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 to TA=105 °C		VDC	50	100	300	400	600	200	1000	Volts
Maximum average Forward Rectified Current 0.5"(12.5mm)lead length at TL=105 °C		l(AV)	3.0							Amps
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)		IFSM	125.0							Amps
Maximum Instantaneous Forward Voltage at 3.0 A		VF	1.0							Volts
Maximum Reverse current at rated DC Blocking Voltage	TA =25 °C	IR	5.0							μ A
	TA =150 °C		100.0							
Typical Thermal Resistance (Note 2)		RθJA	20.0							°C/W
Typical Junction Capacitance (Note 1)		CJ	40.0							pF
Maximum DC Blocking Voltage temperature		TA	+150.0							°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 GP30A THROUGH P30M

FIG.1-FORWARD CURRENT DERATING CURVE

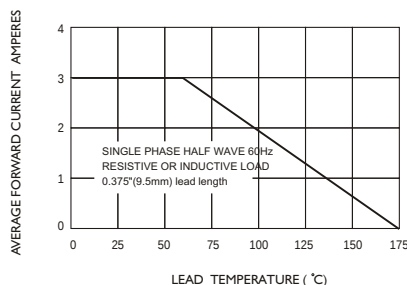


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

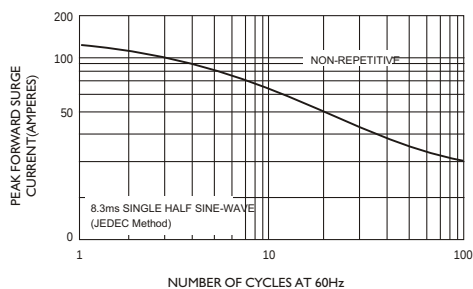


FIG.5-TYPICAL JUNCTION CAPACITANCE

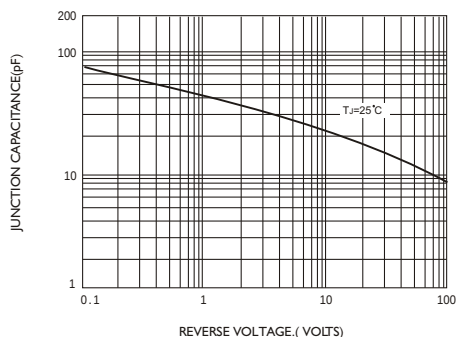


FIG.2-TYPICAL INSTANTANEOUS FORWARD VOLTAGE.(V)

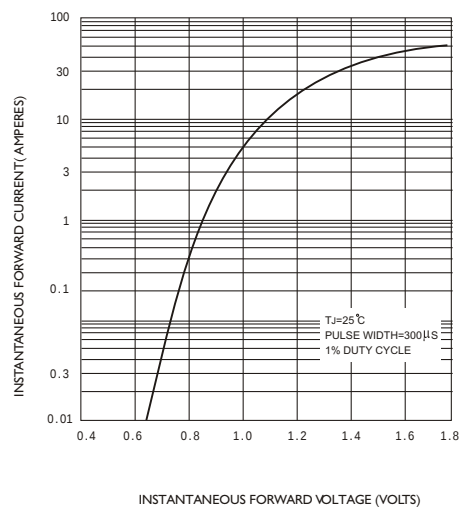


FIG.4-TYPICAL REVERSE CHARACTERISTICS

