GP30 - 15

SINTERED GLASS JUNCTION PLASTIC RECTIFIER

VOLTAGE:1500V CURRENT: 3.0A

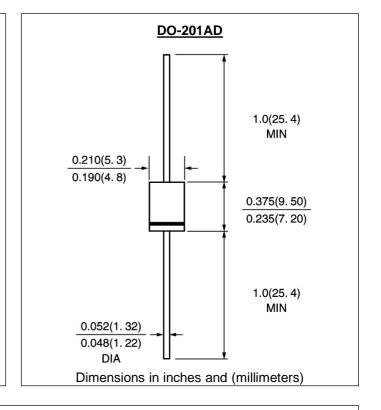


FEATURE

High temperature metallurgically bonded construction Sintered glass cavity free junction Capability of meeting environmental standard of MIL-S-19500 High temperature soldering guaranteed 350°C /10sec/0.375"lead length at 5 lbs tension Operate at Ta =55°C with no thermal run away Typical Ir<0.1 μ A

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 Mounting position:any



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%)

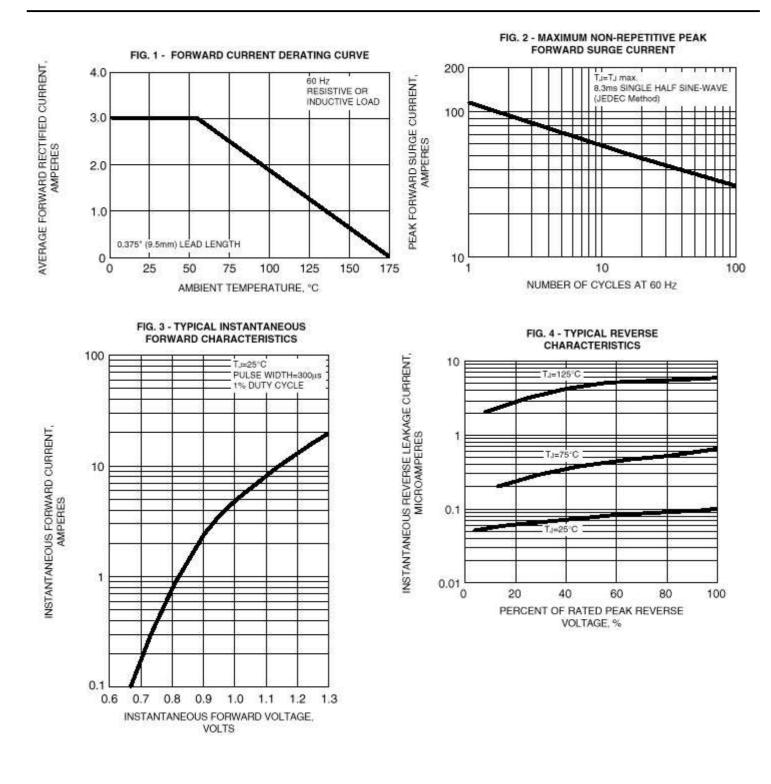
	SYMBOL	GP30 - 15	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	1500	V
Maximum RMS Voltage	Vrms	1050	V
Maximum DC blocking Voltage	Vdc	1500	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	3.0	А
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	125.0	А
Maximum Instantaneous Forward Voltage at 3.0A	Vf	1.2	V
Maximum full load reverse current full cycle Average at 55°C	Ir(av)	100.0	μΑ
Maximum DC Reverse Current $Ta = 25^{\circ}C$ at rated DC blocking voltage $Ta = 150^{\circ}C$	lr	5.0 100.0	μA μA
Typical Reverse Recovery Time (Note 1)	Trr	3.0	μS
Typical Junction Capacitance (Note 2)	Cj	40.0	pF
Typical Thermal Resistance (Note 3)	R(ja)	20.0	°C /M
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	°C

Note:

- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

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RATINGS AND CHARACTERISTIC CURVES GP30-15



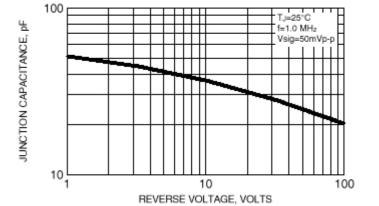


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

¹ Rev.A4