

PG5400 THRU PG5408

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER VOLTAGE - 50 to 1000 Volts CURRENT - 3.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Glass passivated junction in DO-201AD package
- 3.0 ampere operation at $T_A=55\text{ }^{\circ}\text{C}$ with no thermal runaway
- Exceeds environmental standards of MIL-S-19500/228
- Low reverse leakage current

MECHANICAL DATA

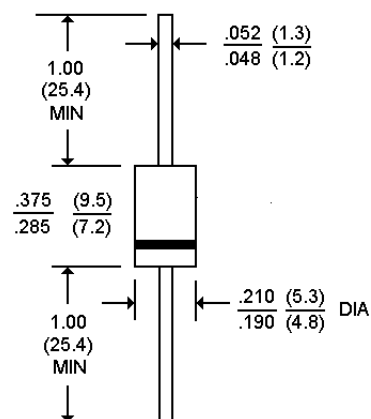
Case: Molded plastic

Terminals: Axial leads, solderable per MIL-STD-202, Method 208

Mounting Position: Any

Weight: 0.04 ounce, 1.1 gram

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	PG5400	PG5401	PG5402	PG5404	PG5406	PG5407	PG5408	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at $T_A=55\text{ }^{\circ}\text{C}$	3.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	150							A
Maximum Forward Voltage at 3.0A	1.2							V
Maximum Reverse Current at $T_a=25\text{ }^{\circ}\text{C}$	5.0							$\mu\text{g A}$
At Rated DC Blocking Voltage $T_a=100\text{ }^{\circ}\text{C}$	100							$\mu\text{g A}$
Typical Junction capacitance (Note 1)	30							pF
Typical Thermal Resistance R θKJA (Note 2)	20							$^{\circ}\text{C/W}$
Typical Reverse Recovery Time(Note 3)	2							$\mu\text{g S}$
Operating and Storage Temperature Range T_A	-55 to +150							$^{\circ}\text{C}$

NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
2. Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length P.C.B mounted
3. Reverse Recovery Test Conditions: $I_F=.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=2.5\text{A}$

RATING AND CHARACTERISTIC CURVES

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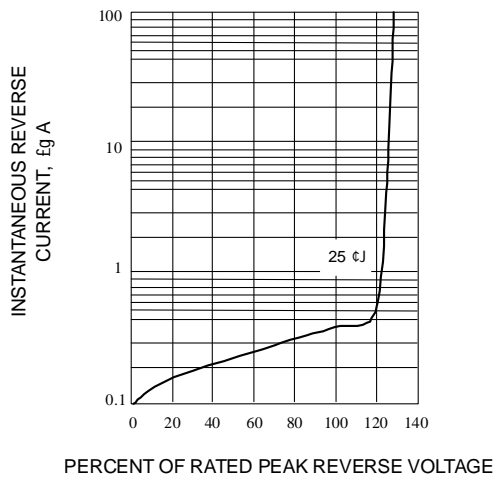


Fig. 1-TYPICAL REVERSE CHARACTERISTICS

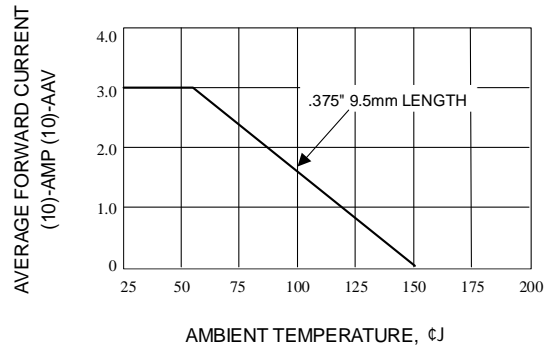


Fig. 2-FORWARD DERATING CURVE

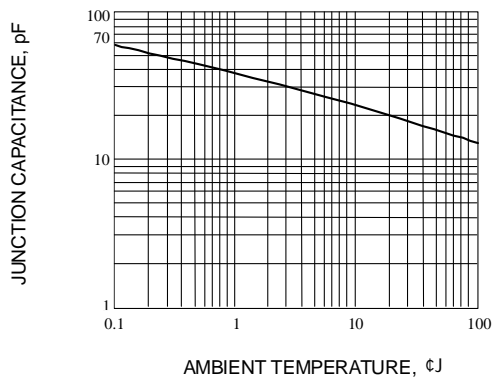


Fig. 3-FORWARD CURRENT DERATING CURVE

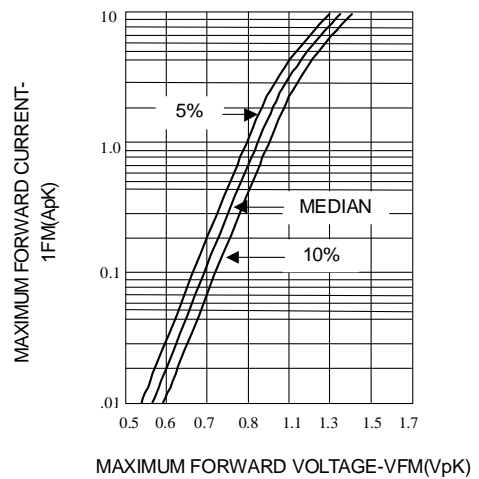


Fig. 4-TYPICAL JUNCTION CAPACITANCE

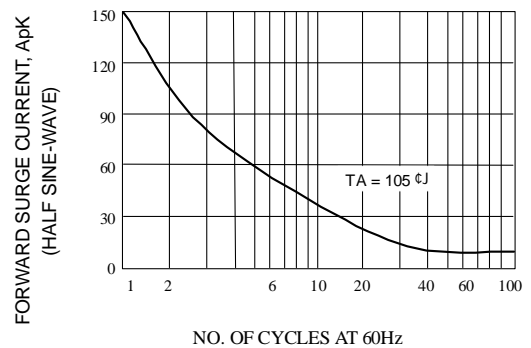


Fig. 5-MAXIMUM OVERLOAD SURGE CURRENT