PANJIT SEMI CONDUCTOR

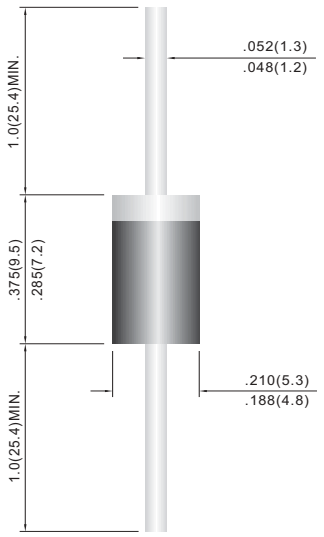
DATA SHEET

PG5400~PG5408

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

VOLTAGE 50 to 1000 Volts **CURRENT** 3.0 Ampere

DO-201AD Unit: inch(mm)



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Glass passivated junction
- Exceeds environmental standards of MIL-S-19500/228
- Both normal and Pb free product are available :
  Normal : 80~95% Sn, 5~20% Pb
  Pb free: 98.5% Sn above

MECHANICALDATA

Case: Molded plastic, DO-201AD
Terminals: Axial leads, solderable to MIL-STD-202,Method 208
Polarity: Color Band denotes cathode end
Mounting Position: Any
Weight: 0.04 ounce, 1.1 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	PG5400	PG5401	PG5402	PG5403	PG5404	PG5405	PG5406	PG5407	PG5408	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at TA=55 °C	I_{AV}	3.0									A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	150									A
Maximum Forward Voltage at 3.0A	V_F	1.2									V
Maximum DC Reverse Current TA=25°C at Rated DC Blocking Voltage TA=100°C	I_R	5.0 100									uA
Typical Junction capacitance (Note 1)	C_J	30									pF
Typical Thermal Resistance (Note 2)	RθJA	20									°C /W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 TO +150									°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.

RATING AND CHARACTERISTIC CURVES

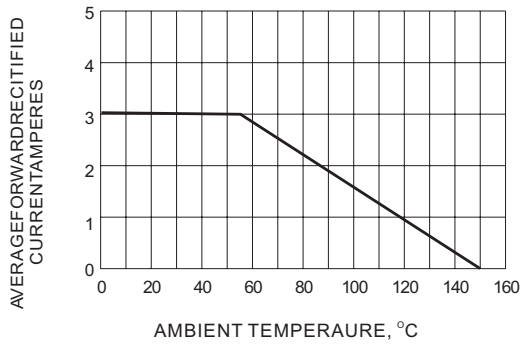


Fig.1- FORWARD CURRENT DERATING CURVE

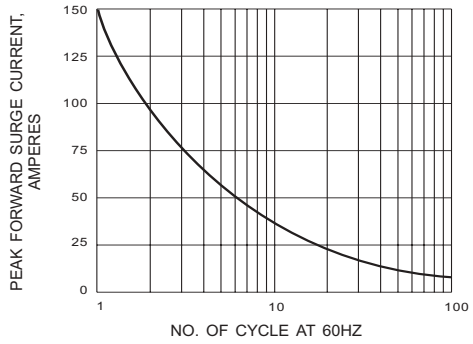


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

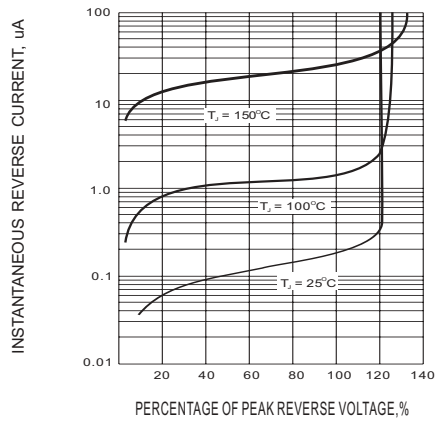


Fig.3- TYPICAL REVERSE CHARACTERISTIC

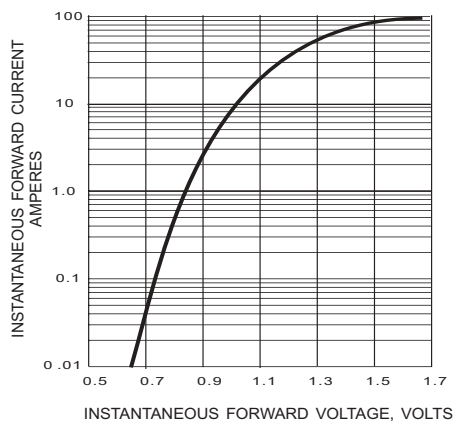


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

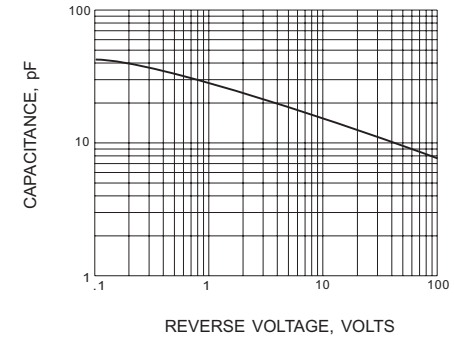


Fig.5- TYPICAL JUNCTION CAPACITANCE