PANJIT SEMI CONDUCTOR

PG600A~PG600M

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIERS

VOLTAGE 50 to 1000 Volts **CURRENT** 6.0 Amperes

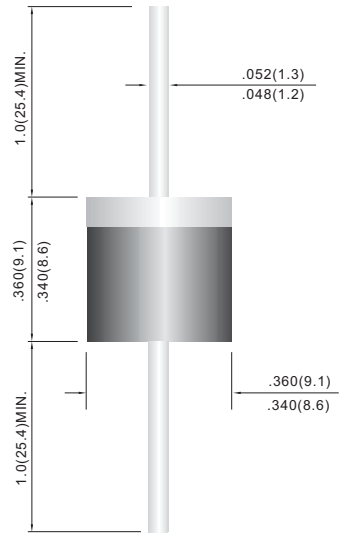
FEATURES

- High surge current capability.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- In compliance with EU RoHS 2002/95/EC directives

MECHANICALDATA

- Case: Molded plastic, P600
- Terminals: Axial leads, solderable to MIL-STD-750,Method 2026
- Polarity: Color Band denotes cathode end
- Mounting Position: Any
- Weight: 0.07 ounce, 2.1 gram

P-600 Unit: inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	PG600A	PG600B	PG600D	PG600G	PG600J	PG600K	PG600M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at T_A=55°C	$I_{F(AV)}$	6.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method) (Note 1)	I_{FSM}	300							A
Maximum Forward Voltage at 6.0A	V_F	1.0							V
Maximum DC Reverse Current T_J=25°C at Rated DC Blocking Voltage T_J=100°C	I_R	10 300							uA
Typical Junction capacitance (Note 2)	C_J	150							pF
Typical Thermal Resistance(Note 3)	$R_{\theta JA}$ $R_{\theta JL}$	20 4.0							°C / W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 TO +150							°C

NOTES: 1.Perk forward surge current,per 8.3ms single half-sine-wave superimposed on rated load(JEDEC method)
2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted with 1.1 x 1.1 (30 x 30mm)copper pads.

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RATING AND CHARACTERISTIC CURVES

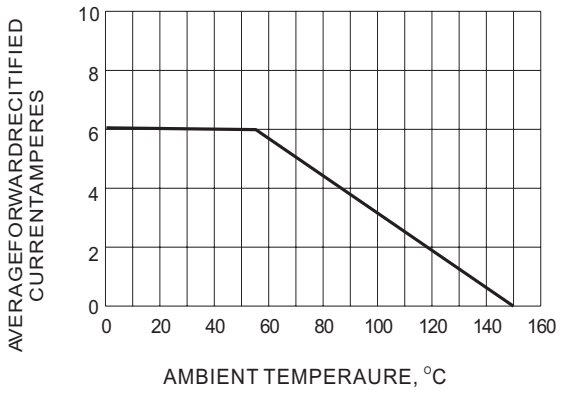


Fig.1- FORWARD CURRENT DERATING CURVE

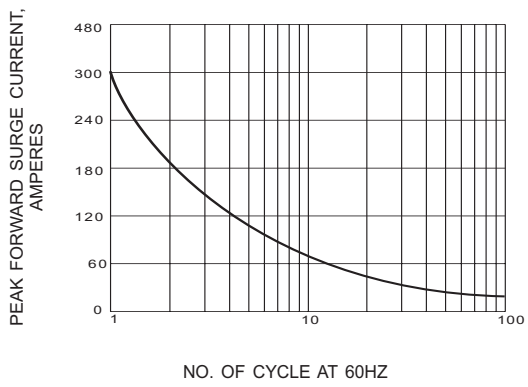


Fig.2- MAXIMUM FORWARD SURGE CURRENT

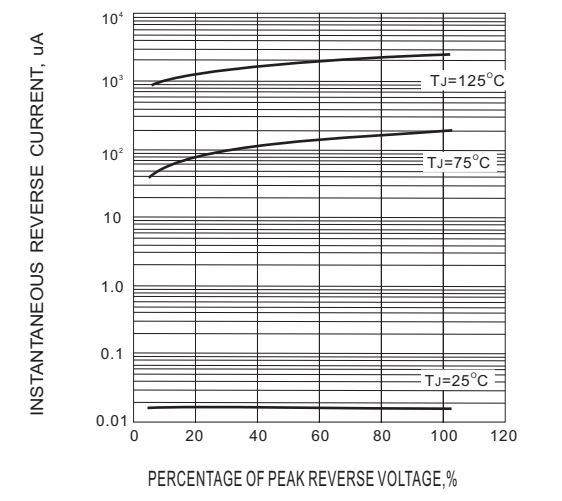


Fig.3- TYPICAL REVERSE CHARACTERISTIC

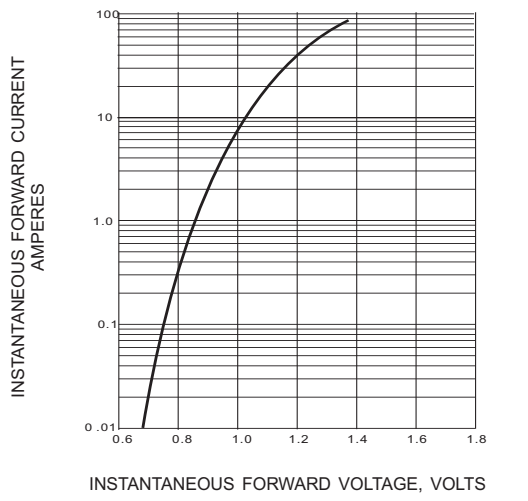


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

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