



PG600A~PG600M

GLASS PASSIVATED JUNCTION PLASTIC RECTIFIERS

VOLTAGE 50 to 1000 Volt **CURRENT** 6 Ampere

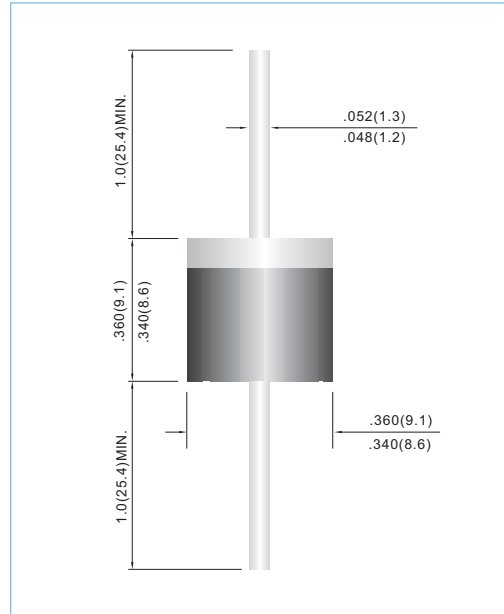
P-600 Unit: inch(mm)

FEATURES

- High surge current capability.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: Molded plastic, P600
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Weight: 0.0719 ounce, 2.04 gram



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 0.375" (9.5mm) lead length | $I_{F(AV)}$ | 6.0 | | | | | | | A |
| Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (Note 1) | I_{FSM} | 300 | | | | | | | A |
| Maximum Forward Voltage at 6A | V_F | 1.0 | | | | | | | V |
| Maximum DC Reverse Current $T_J=25^{\circ}C$ at Rated DC Blocking Voltage $T_J=100^{\circ}C$ | I_R | 1.0 300 | | | | | | | μA |
| Typical Junction Capacitance (Note 2) | C_J | 150 | | | | | | | pF |
| Typical Thermal Resistance (Note 3) | $R_{\theta JA}$ $R_{\theta JL}$ | 20 4.0 | | | | | | | $^{\circ}C / W$ |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55 to +150 | | | | | | | $^{\circ}C$ |

NOTES: 1. Peak 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 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

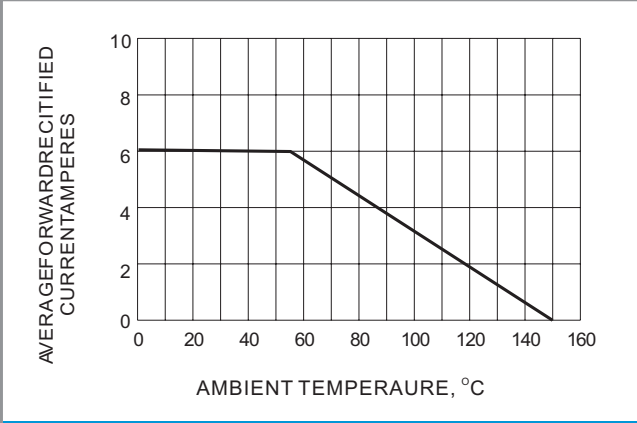


Fig.1- FORWARD CURRENT DERATING CURVE

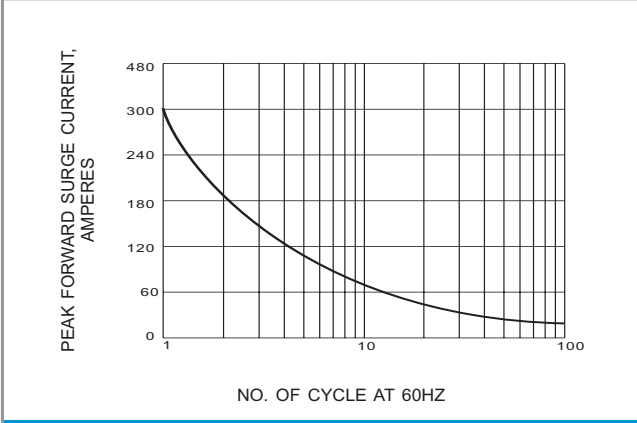


Fig.2- MAXIMUM FORWARD SURGE CURRENT

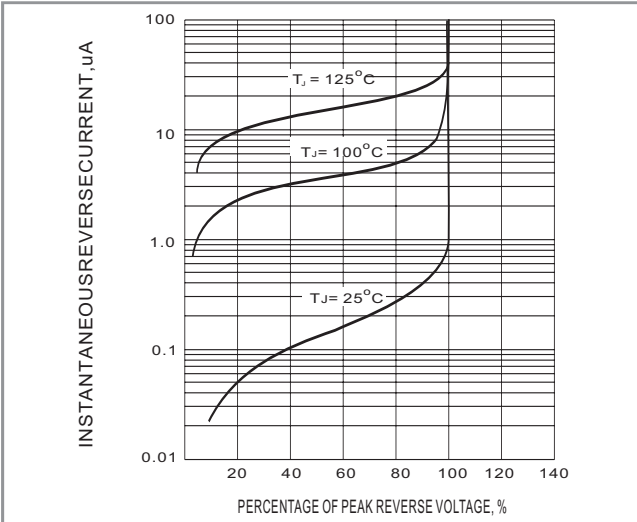


Fig.3- TYPICAL REVERSE CHARACTERISTIC

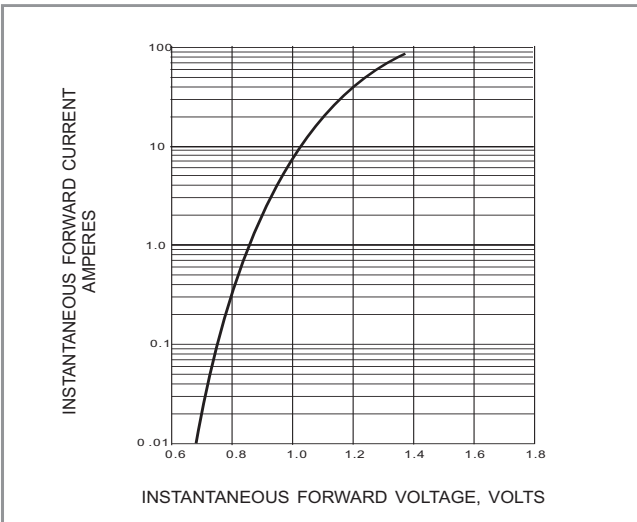


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC



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Part No Packing Code Version

| Part No Packing Code | Package Type | Packing Type | Marking | Version |
|----------------------|--------------|----------------|---------|--------------|
| PG600A_AY_00001 | P-600 | 400 pcs / Ammo | PG600A | Halogen free |



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