

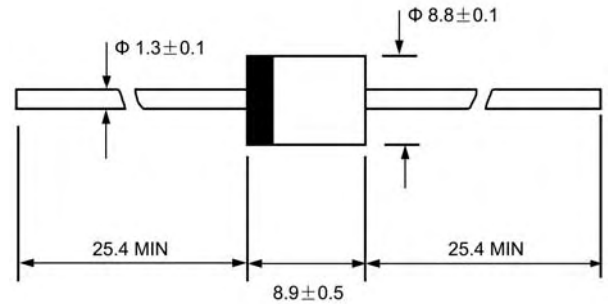


VOLTAGE RANGE: 50 --- 1200 V
CURRENT: 6.0 A

R - 6

Features

- ◇ Low cost
- ◇ Diffused junction
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0



Dimensions in millimeters

Mechanical Data

- ◇ Case: JEDEC R-6, molded plastic
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.072 ounces, 2.04 grams
- ◇ Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

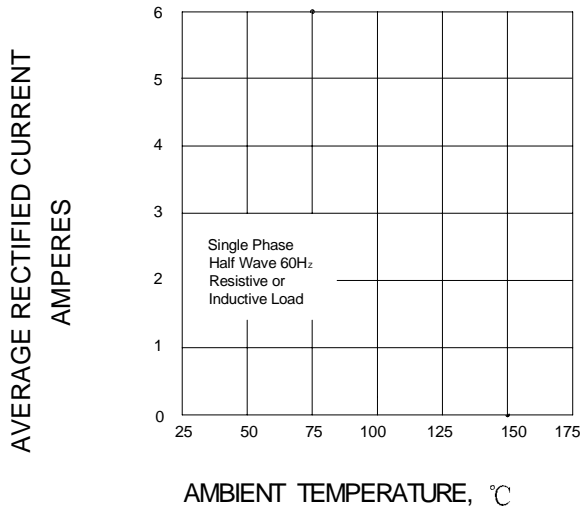
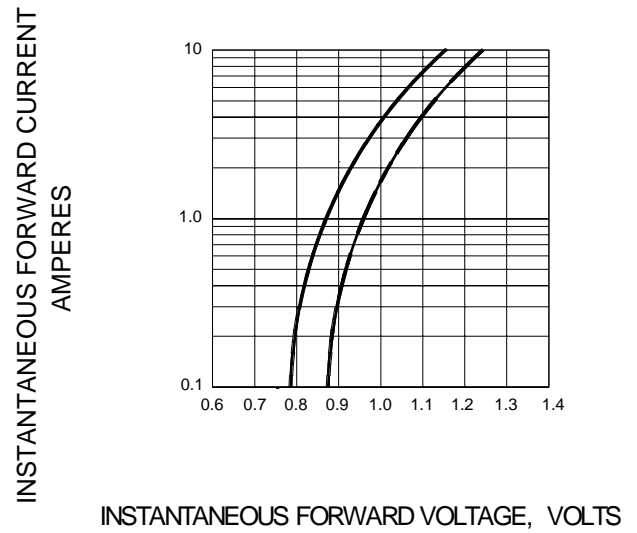
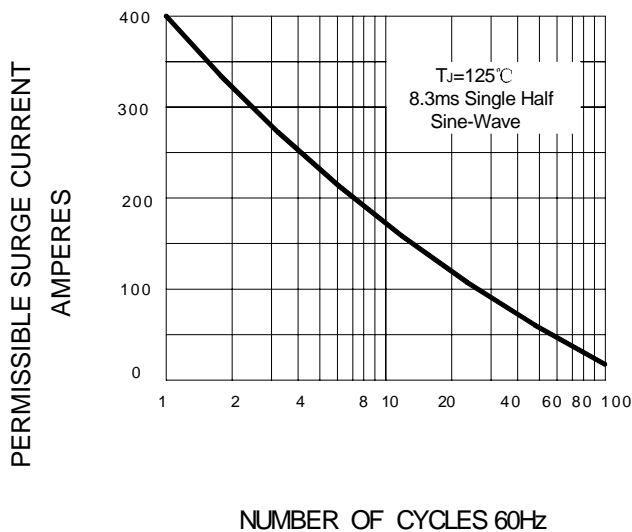
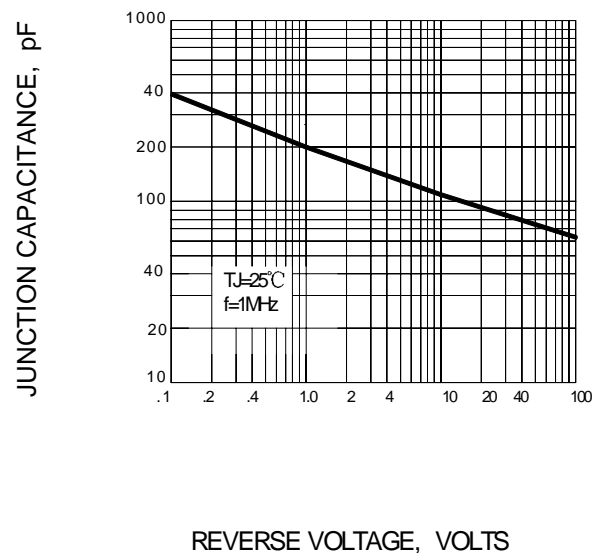
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

| | | P600 A | P600 B | P600 D | P600 G | P600 J | P600 K | P600 M | P600 S | UNITS |
|---|-----------------|-----------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|--------------|
| Maximum recurrent peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | 1200 | V |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | 840 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | 1200 | V |
| Maximum average forward rectified current 9.5mm lead length, @ $T_A=60^\circ C$ | $I_{F(AV)}$ | 6.0 | | | | | | | | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ C$ | I_{FSM} | 400 | | | | | | | | A |
| Maximum instantaneous forward voltage @ 6.0 A | V_F | 0.9 | | | 1.0 | | | | | V |
| Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$ | I_R | | | | | 5.0 | | 1000 | | μA |
| Typical junction capacitance (Note1) | C_J | | | | | 150 | | | | pF |
| Typical thermal resistance (Note2) | $R_{\theta JA}$ | | | | | 20 | | | | $^\circ C/W$ |
| Operating junction temperature range | T_J | | | | | -55-----+150 | | | | $^\circ C$ |
| Storage temperature range | T_{STG} | | | | | -55-----+150 | | | | $^\circ C$ |

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient.

Ratings AND Characteristic Curves

FIG.1 – FORWARD DERATING CURVE

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

FIG.3 - PEAK FORWARD SURGE CURRENT

FIG.4 – TYPICAL JUNCTION CAPACITANCE


| PACKAGE | SPQ/PCS | CARTON SPQ/PCS | CARTON SIZE/CM | CARTON GW/KG | CARTON NW/KG |
|---------|----------|----------------|----------------|--------------|--------------|
| R-6 | 500/AMMO | 5000 | 44X28X31 | 12.00 | 10.00 |

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