P600A THRU P600M

6.0 AMPS Silicon Rectifiers

Voltage Range
50 to 1000 Volts
Current
6.0 Amperes

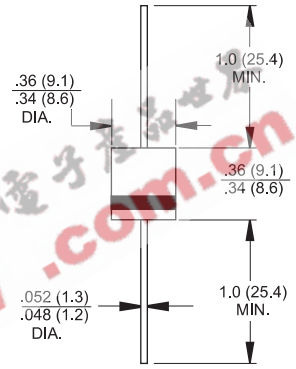
Features

- ✧ Plastic material used carries Underwriters Laboratory Classification 94V-0
- ✧ High forward current capability
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed: 260°C/10 seconds, 0.375"(9.5mm) lead length, 5lbs. (2.3kg) tension

Mechanical Data

- ✧ Cases: Molded plastic
- ✧ Lead: Plated axial leads, solderable per MIL-STD-750, Method 2026
- ✧ Polarity: Color band denotes cathode end
- ✧ Mounting position: Any
- ✧ Weight: 0.07 ounce, 2.1 grams

P600



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

Type Number	Symbol	P600A	P600B	P600D	P600G	P600J	P600K	P600M	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 Rectified Current at
T_A=60°C, 0.375"(9.5mm) Lead Length (Fig 1)
T_L=60℃, 0.125"(3.1mm) Lead Length (Fig 2)

$I_{(AV)}$37 12.671 ref478.534 250.0232 0f478.534 /671 re087 0 0 7.0087 61.87 0 403.ngth (5 Tc80

RATINGS AND CHARACTERISTIC CURVES (P600A THRU P600M)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

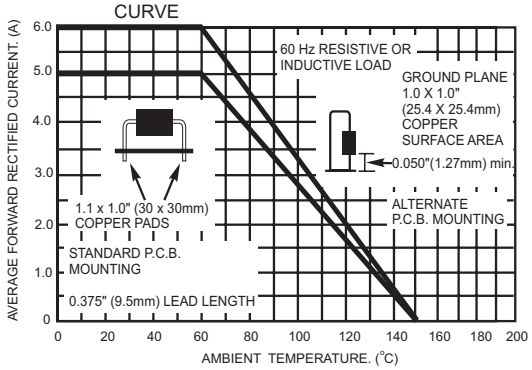


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

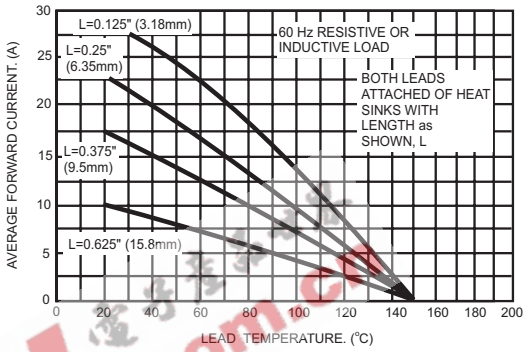


FIG.3- TYPICAL REVERSE CHARACTERISTICS

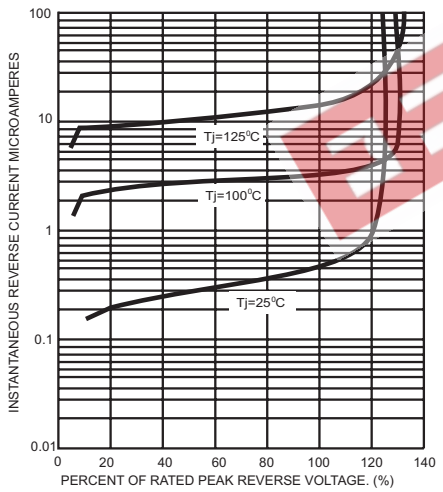


FIG.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

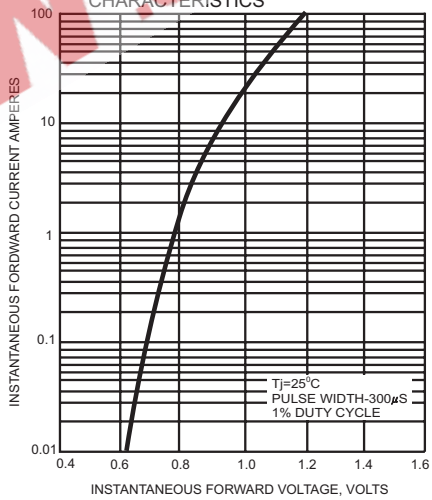


FIG.5- MAXIMUM REPETITIVE FORWARD SURGE CURRENT

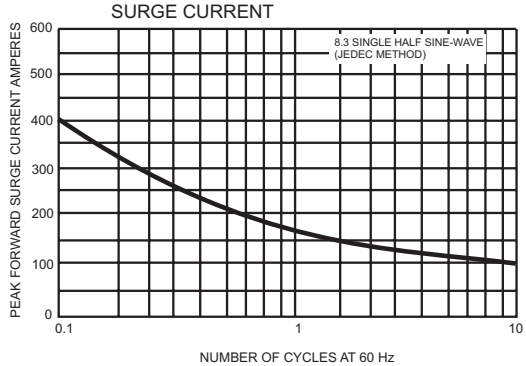


FIG.6- TYPICAL TRANSIENT THERMAL IMPEDANCE