



## P600A THRU P600M

### 6.0 AMPS Silicon Rectifiers



Voltage Range  
50 to 1000 Volts  
Current  
6.0 Amperes

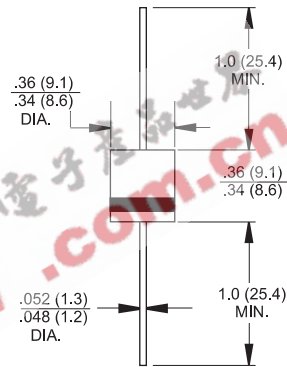
#### Features

- ✧ 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°C 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  
 $T_A=60^\circ\text{C}$ , 0.375"(9.5mm) Lead Length (Fig 1)  
 $T_L=60^\circ\text{C}$ , 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

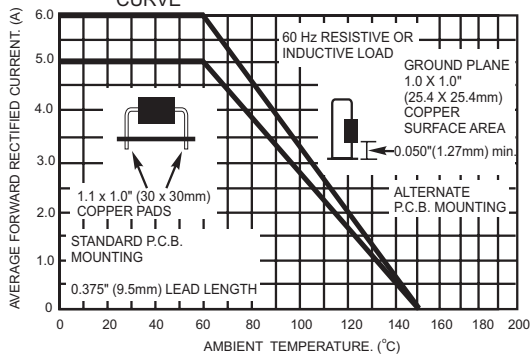


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

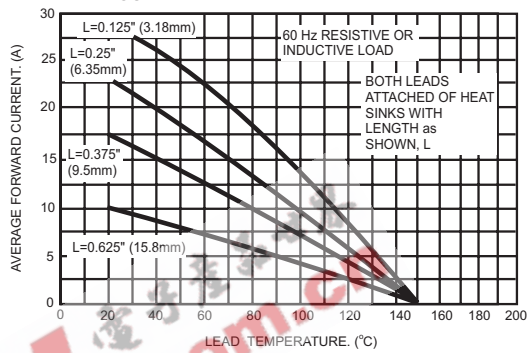


FIG.3- TYPICAL REVERSE CHARACTERISTICS

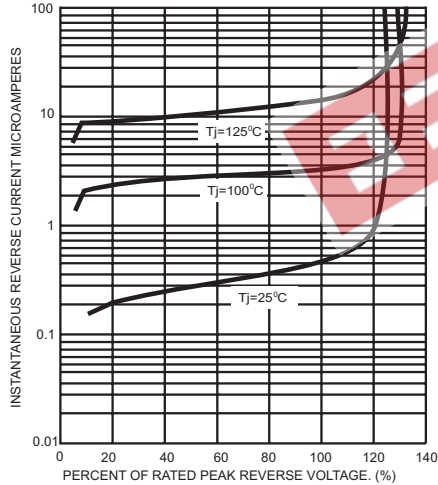


FIG.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

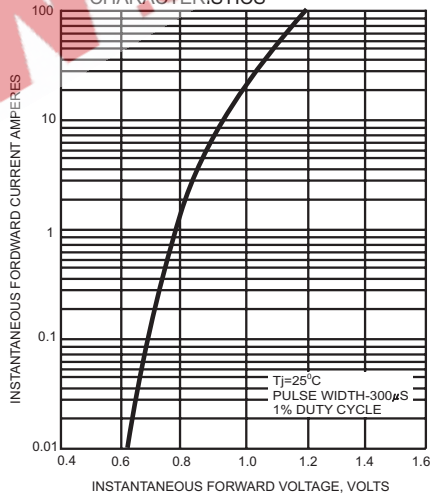


FIG.5- MAXIMUM REPETITIVE FORWARD SURGE CURRENT

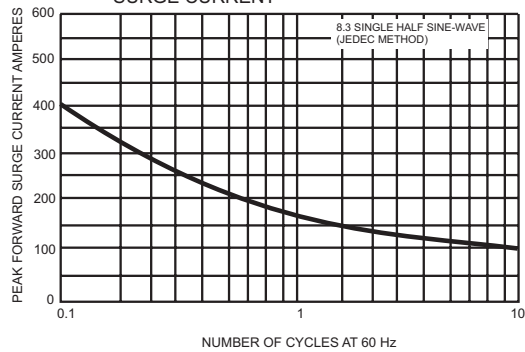


FIG.6- TYPICAL TRANSIENT THERMAL IMPEDANCE

