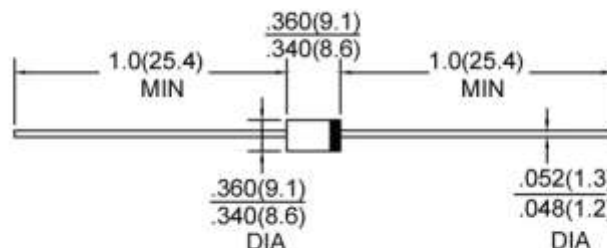


### FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

### MECHANICAL DATA

- Molded plastic body (UL 94V-0 rated)
- Solderability per MIL-STD-202, Method208
- Color band denotes cathode end .
- Weight: 1 gram



R-6 (P600)

Dimensions in inches and (millimeters)

### MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

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

| Parameter                                                                                                  | Symbol             | 6A05        | 6A10  | 6A20  | 6A40  | 6A60  | 6A80  | 6A100 | Unit |
|------------------------------------------------------------------------------------------------------------|--------------------|-------------|-------|-------|-------|-------|-------|-------|------|
|                                                                                                            |                    | P600A       | P600B | P600D | P600G | P600J | P600K | P600M |      |
| Maximum Repetitive Peak Reverse Voltage                                                                    | V <sub>RRM</sub>   | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | V    |
| Maximum RMS Voltage                                                                                        | V <sub>RMS</sub>   | 35          | 70    | 140   | 280   | 420   | 560   | 700   | V    |
| Maximum DC blocking Voltage                                                                                | V <sub>DC</sub>    | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | V    |
| Maximum Average Forward Rectified Current<br>0.375 "9(5mm )Lead Length@ T <sub>A</sub> =50°C               | I <sub>F(AV)</sub> | 6.0         |       |       |       |       |       |       | A    |
| Peak Forward Surge Current, 8.3ms single<br>half sine-wave superimposed on rated load<br>(JEDEC method )   | I <sub>FSM</sub>   | 400         |       |       |       |       |       |       | A    |
| Maximum Instantaneous Forward<br>Voltage@6.0A                                                              | V <sub>F</sub>     | 0.9         |       |       |       |       |       |       | V    |
| Maximum DC Reverse Current @ T <sub>A</sub> = 25°C<br>At rated DC blocking voltage @ T <sub>A</sub> =125°C | I <sub>R</sub>     | 5.0<br>50   |       |       |       |       |       |       | μA   |
| Operating Junction Temperature Range                                                                       | T <sub>J</sub>     | -50 to +125 |       |       |       |       |       |       | °C   |
| Storage Temperature Range                                                                                  | T <sub>STG</sub>   | -50 to +150 |       |       |       |       |       |       | °C   |

**NOTE** :Mount on Copper Pad Size 16mm x 16mm on P C B .

## RATING & CHARACTERISTIC CURVES

FIG.1- FORWARD CURRENT DERATING CURVE

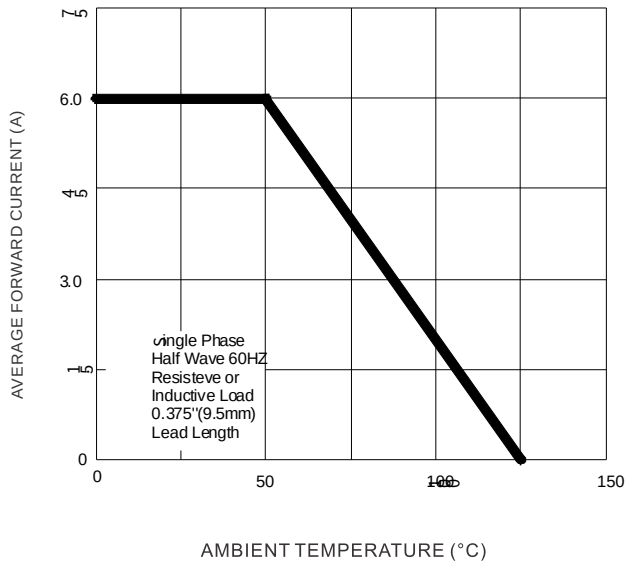


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

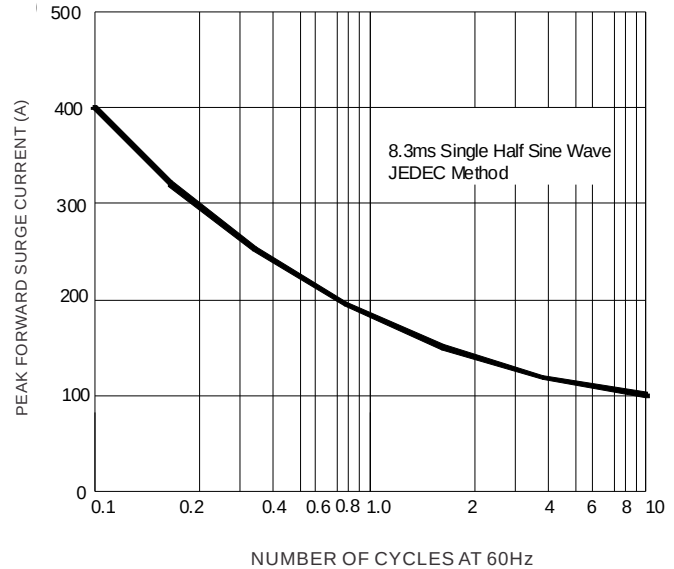


FIG.3- TYPICAL FORWARD CHARACTERISTICS

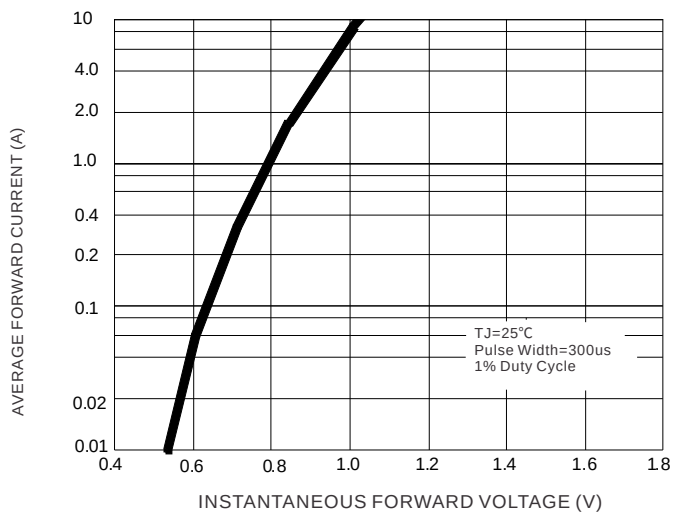


FIG.4- TYPICAL REVERSE CHARACTERISTICS

