

### SILICON VARISTOR

DC FORWARD CURRENT: 400,150 mA

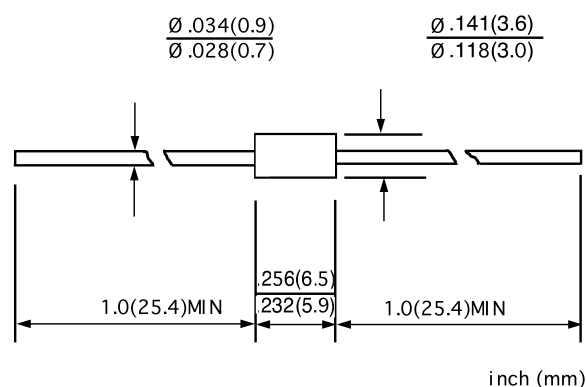
#### FEATURES

- ◇ Molded case feature for auto insertion
- ◇ High surge capability
- ◇ High temperature soldering guaranteed:  
250°C/10S/9.5mm lead length at 5 lbs tension

#### MECHANICAL DATA

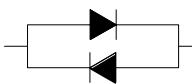
- ◇ Case: Molded with UL-94 Class V-O recognized flame retardant epoxy
- ◇ Terminals: Plated axial leads, solderable per MIL-STD-202E, Method 208C
- ◇ Mounting position: Any

#### DO-15

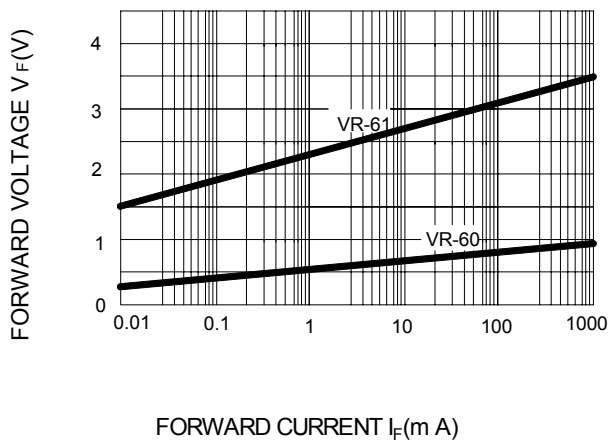


### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

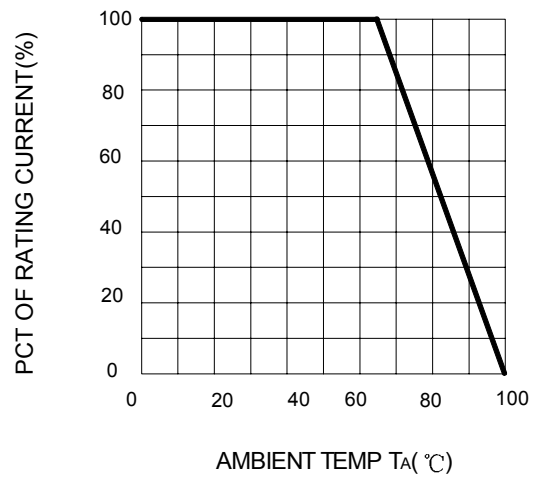
Ratings at 25°C ambient temperature unless otherwise specified.

|                                      |           | SYMBOL           | TEST CONDITION              | VALUE                                                                                |                                                                                       | UNITS |
|--------------------------------------|-----------|------------------|-----------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|
|                                      |           |                  |                             | VR60                                                                                 | VR61                                                                                  |       |
| DC forward current                   |           | I <sub>F</sub>   |                             | 400                                                                                  | 150                                                                                   | mA    |
| Maximum surge current                |           | I <sub>FSM</sub> | 8.3ms single half-sine wave | 35                                                                                   | 25                                                                                    | A     |
| Forward voltage                      |           | V <sub>F</sub>   | I <sub>F</sub> =1A          | 1.5max                                                                               |                                                                                       | V     |
|                                      |           |                  | I <sub>F</sub> =1mA         | 0.5min                                                                               | 2.30±0.25                                                                             |       |
|                                      |           |                  | I <sub>F</sub> =10mA        |                                                                                      | 2.75±0.25                                                                             |       |
|                                      |           |                  | I <sub>F</sub> =70mA        |                                                                                      | 3.10±0.25                                                                             |       |
| Forward current                      |           | I <sub>F</sub>   | V <sub>F</sub> =0.2V        | 20max                                                                                |                                                                                       | μA    |
| Assembly of chips                    |           |                  |                             |  |  |       |
| Color band                           | positions |                  |                             |  |  |       |
|                                      | color     |                  |                             | Silver                                                                               |                                                                                       |       |
| Operating junction temperature range |           | T <sub>J</sub>   | - 55 ---- + 100             |                                                                                      |                                                                                       | °C    |
| Storage temperature range            |           | T <sub>STG</sub> | - 55 ---- + 100             |                                                                                      |                                                                                       | °C    |

**FIG.1 - TYPICAL INSTANTANEOUS  
FORWARD CHARACTERISTICS**



**FIG.2 - TYPICAL FORWARD CURRENT  
DERATING CURVE**



**FIG.3 - PEAK FORWARD SURGE CURRENT**

