

CDSV6-4448TI/AQ/AD/CD/SD-G

Voltage: 80Volts
 Current: 500mA
 RoHS Device

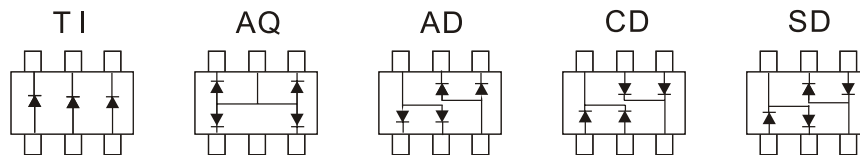
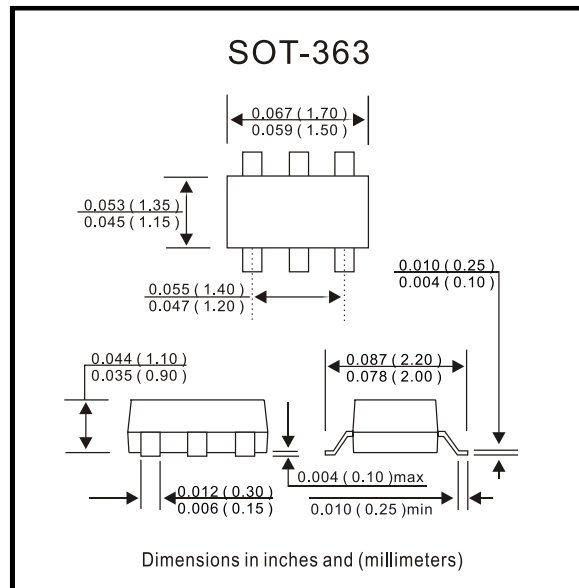


Features

- Designed for mounting on small surface.
- High speed switching.
- High mounting capability, strong surge withstand, high reliability.

Mechanical data

- Case: SOT-363, molded plastic.
- Terminals: Solder plated, solderable per MIL-STD-750, method 208.
- Approx. weight: 0.006 grams approx.



Maximum Ratings and Electrical Characteristics

(at Ta = 25°C unless otherwise noted)

| Parameter | Condition | Symbol | Value | Unit |
|---------------------------------|---|--------|------------------------------|------|
| Repetitive peak reverse voltage | | VRRM | 80 | V |
| Reverse voltage | | VR | 80 | V |
| Forward continue current | | IFM | 500 | mA |
| Surge peak forward current | T = 1us | IFSM | 2 | A |
| Power dissipation | | Pd | 200 | mW |
| Maximum forward voltage | @ IF= 1 mA @ IF= 10 mA @ IF= 100mA @ IF= 150mA | VF | 0.72 0.855 1.0 1.25 | V |
| Maximum reverse current | @ VR= 70V @ VR= 75V, Tj= 150°C @ VR= 25V, Tj= 150°C @ VR= 20V, | IR | 0.1 50 30 0.25 | uA |
| Max reverse recovery time | VR=6V, IF=5mA | Trr | 4 | nS |
| Typical diode capacitnace | VR=6V, f=1MHz | CT | 3.5 | pF |
| Max. Junction temperature | | Tj | 150 | °C |
| Storage temperature | | TSTG | -55 to +150 | °C |

Rev. A

RATING AND CHARACTERISTIC CURVES (CDSV6-4448TI-G/AQ-G/AD-G/CD-G/SD-G)

Fig. 1 - Forward characteristics

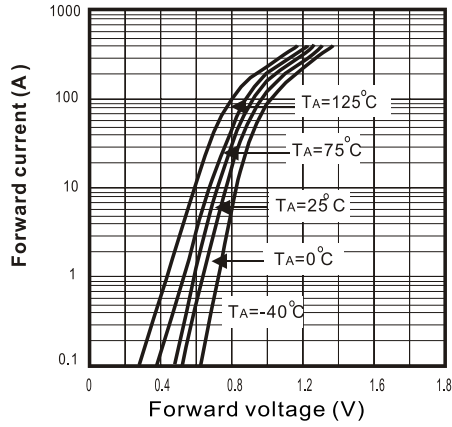


Fig. 2 - Reverse characteristics

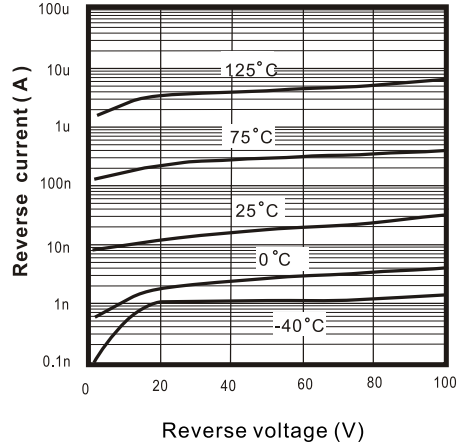


Fig. 3 - Capacitance between terminals characteristics

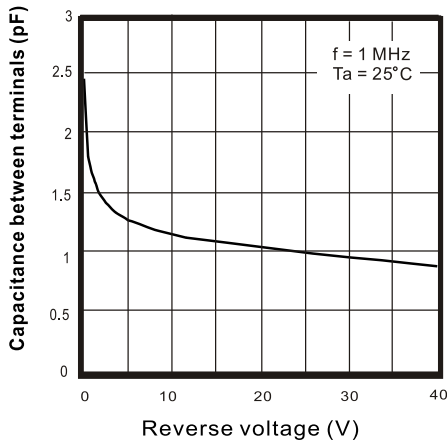


Fig. 4 - Power derating curve

