

Small Signal Switching Diodes



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

Voltage: 80Volts
Current: 500mA
RoHS Device

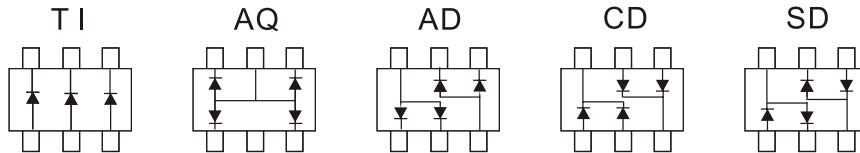
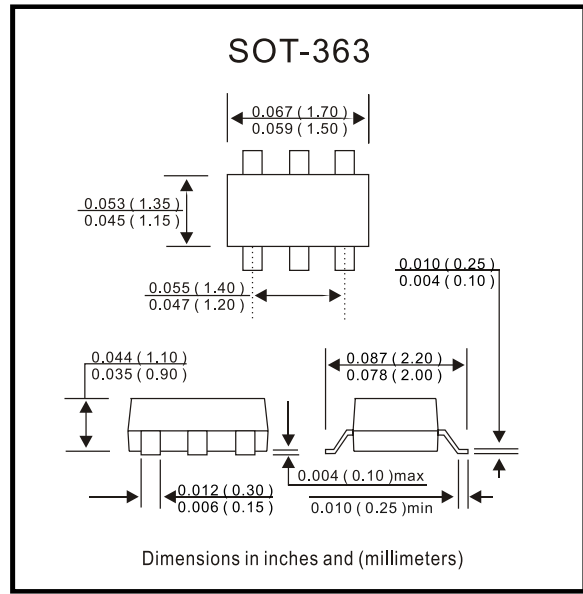


Features

- 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		V _{RRM}	80	V
Reverse voltage		V _R	80	V
Forward continue current		I _{FM}	500	mA
Surge peak forward current	T = 1us	I _{FSM}	2	A
Power dissipation		P _d	200	mW
Maximum forward voltage	@ I _F = 1 mA @ I _F = 10 mA @ I _F = 100mA @ I _F = 150mA	V _F	0.72 0.855 1.0 1.25	V
Maximum reverse current	@ V _R = 70V @ V _R = 75V, T _j = 150°C @ V _R = 25V, T _j = 150°C @ V _R = 20V,	I _R	0.1 50 30 0.25	uA
Max reverse recovery time	V _R =6V, I _F =5mA	T _{rr}	4	nS
Typical diode capacitnace	V _R =6V, f=1MHz	C _T	3.5	pF
Max. Junction temperature		T _j	150	°C
Storage temperature		T _{STG}	-55 to +150	°C

Rev. A

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

Fig. 1 - Forward characteristics

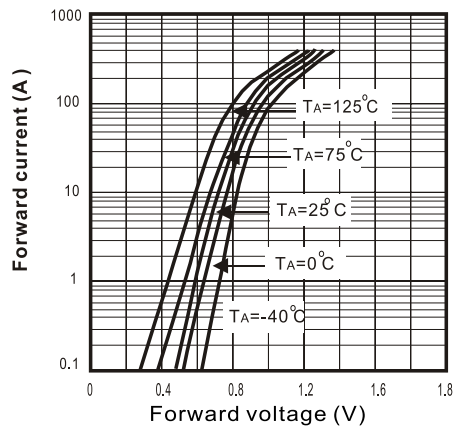


Fig. 2 - Reverse characteristics

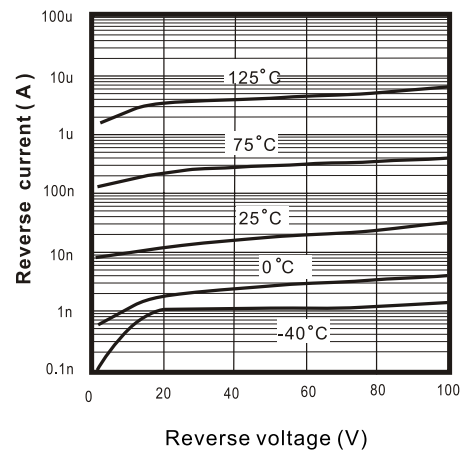


Fig. 3 - Capacitance between terminals characteristics

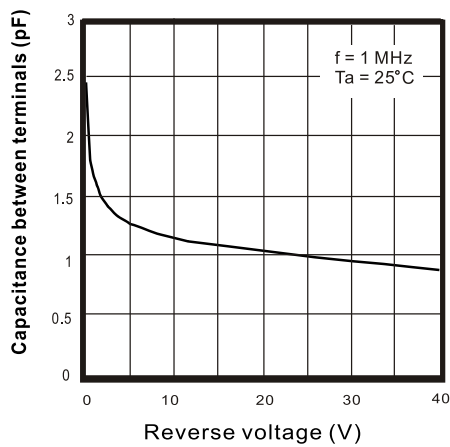


Fig. 4 - Power derating curve

