

Small Signal Switching Diodes



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

Voltage: 80Volts
Current: 500mA
RoHS Device

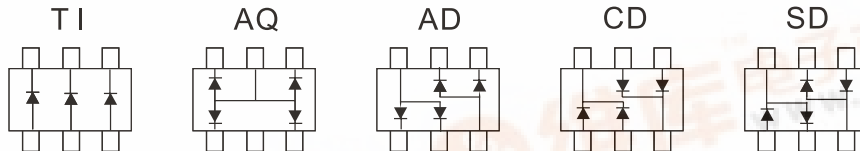
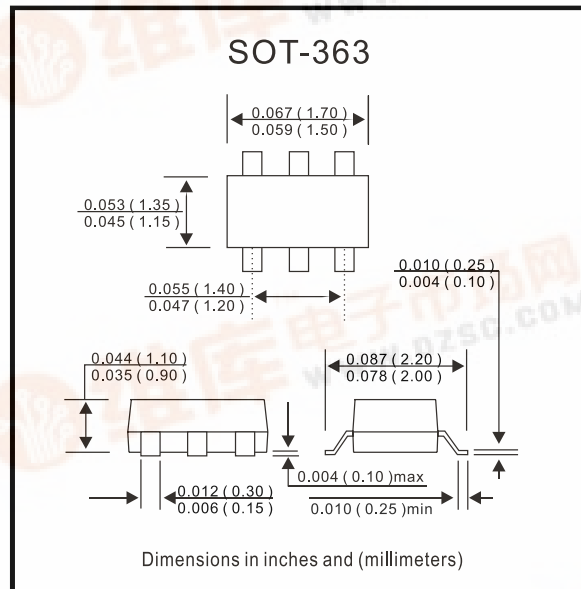


Features

- 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		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 capacitance	VR=6V, f=1MHz	CT	3.5	pF
Max. junction temperature		Tj	150	°C
Storage temperature		TSTG	-55 to +150	°C

Small Signal Switching Diodes



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

Fig. 1 - Forward characteristics

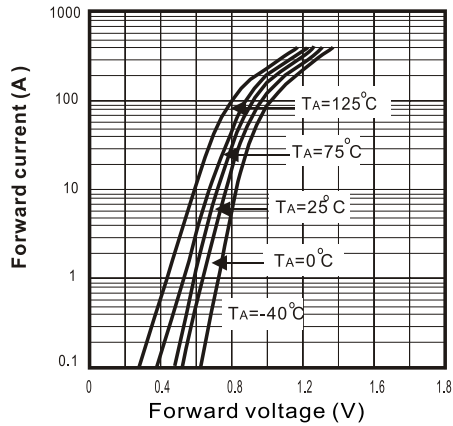


Fig. 2 - Reverse characteristics

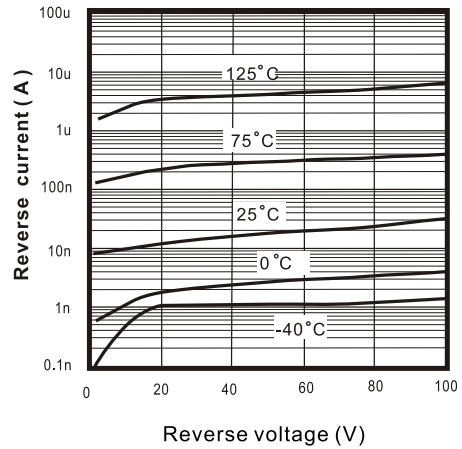


Fig. 3 - Capacitance between terminals characteristics

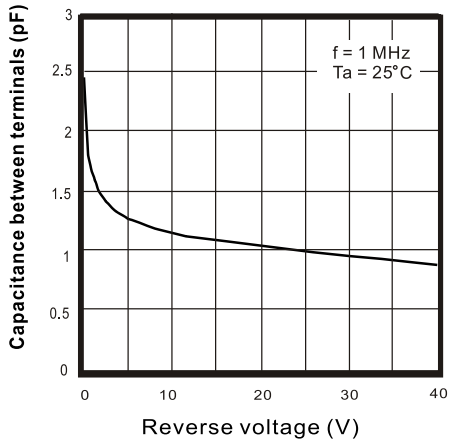


Fig. 4 - Power derating curve

