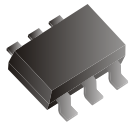
Small Signal Switching Diodes

COMCHIP
SMD Diodes Specialist

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

Reverse Voltage: 80 Volts
Forward Current: 500 mA
RoHS Device



Features

-Design for mounting on small surface.

-High speed switching.

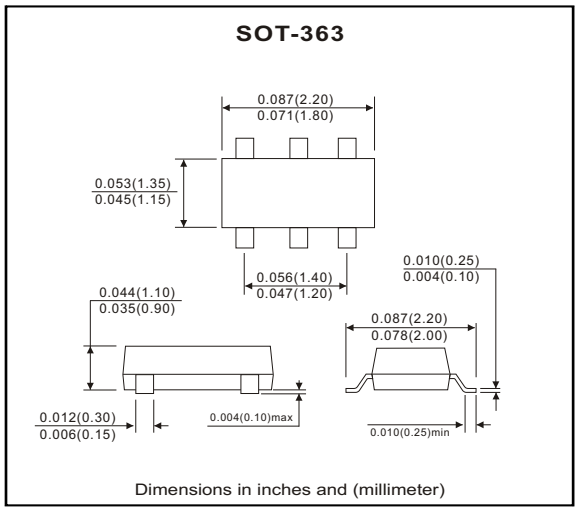
-High mounting capability, strong surge withstand, high reliability.

Mechanical data

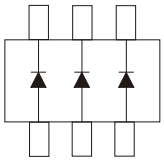
-Case: SOT-363, molded plastic.

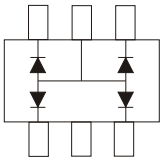
-Terminals: solderable per MIL-STD-750, method 2026.

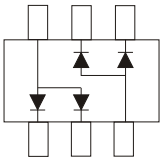
-Approx. weight: 0.006 grams

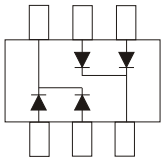


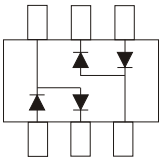
Circuit diagram


CDSV6-4448TI-G


CDSV6-4448AQ-G


CDSV6-4448AD-G


CDSV6-4448CD-G


CDSV6-4448SD-G

Maximum Ratings and Electrical Characteristics

(at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Value	Units
Repetitive peak reverse voltage	V_{RRM}		80	V
Reverse voltage	V_R		80	V
Forward current	I_F		500	mA
Peak surge forward current	I_{FSM}	T=1.0 μS	2	A
Power dissipation	P_D		200	mW
Maximum forward voltage	V_F	@I_F=1mA @I_F=10mA @I_F=100mA @I_F=150mA	0.72 0.855 1.0 1.25	V
Maximum reverse current	I_R	@V_R=20V @V_R=75V @V_R=25V, T_J=150°C @V_R=75V, T_J=150°C	0.025 0.1 30 50	μA
Maximum reverse recovery time	T_{rr}	I_F=5mA, V_R=6V	4	nS
Typical diode capacitance	C_T	V_R=6V, f=1.0MHz	3.5	pF
Maximum junction temperature	T_J		150	°C
Storage temperature	T_{STG}		-55 to +150	°C

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

Fig.1 Forward Characteristics

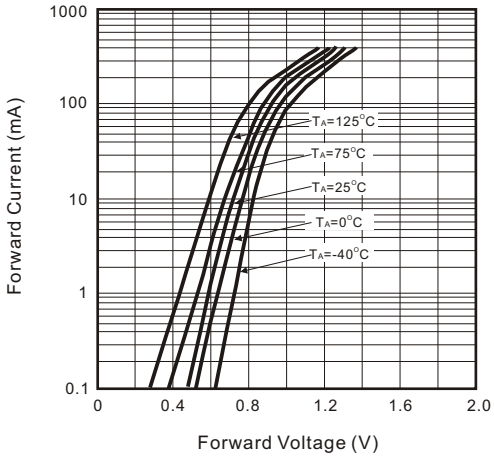


Fig.2 Reverse Characteristics

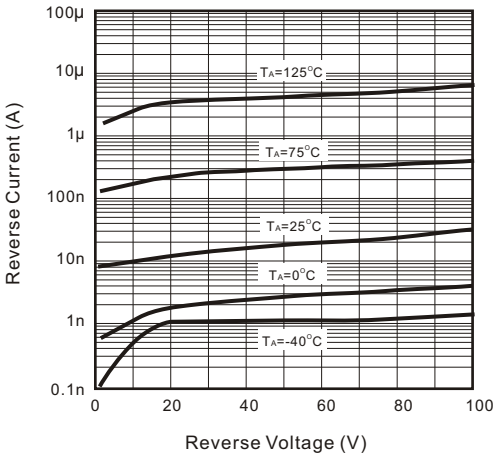


Fig.3 Capacitance Between Terminals Characteristics

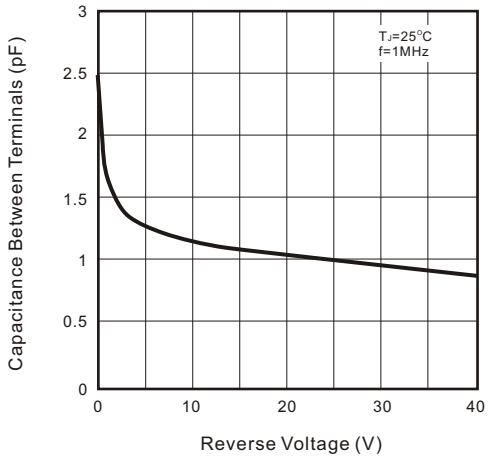


Fig.4 Power Derating Curve