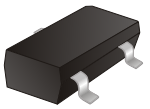
Small Signal Switching Diodes

COMCHIP
SMD Diodes Specialist

CDSV3-217-G



Reverse Voltage: 80 Volts
Forward Current: 300 mA
RoHS Device

Features

Designed for mounting on small surface.

High speed switching.

High mounting capability, strong surge withstand, high reliability.

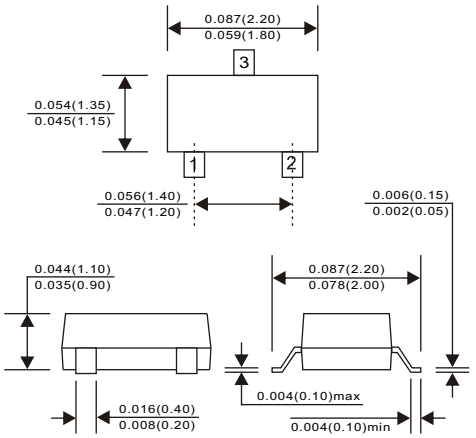
Mechanical data

Case: SOT-323, molded plastic.

Terminals: Solder plated, solderable per MIL-STD-750, method 208.

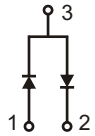
Weight: 0.006 gram(approx.).

SOT-323



Dimensions in inches and (millimeter)

CDSV3-217-G



Maximum Ratings (at T_A=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Peak reverse voltage		V_{RM}			80	V
Reverse voltage		V_R			80	V
Forward current		I_{FM}			300	mA
Average forward current		I_O			100	mA
Forward current, surge peak	T = 10ms	I_{FSM}			1	A
Power dissipation		P_D			200	mW
Storage temper ature		T_{STG}	-55		+125	°C
Junction temper ature		Tj			+125	°C

Electrical Characteristics (at T_A=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F = 100mA	V_F			1.2	V
Reverse current	V_R = 70V	I_R			0.1	uA
Reverse breakdown voltage	I_R = 100uA	V_{BR}	80			V
Junction Capacitance	f=1MHz,and 0 VDC reverse voltage	C_T			2	pF

RATING AND CHARACTERISTIC CURVES (CDSV3-217-G)

Fig. 1 - Forward characteristics

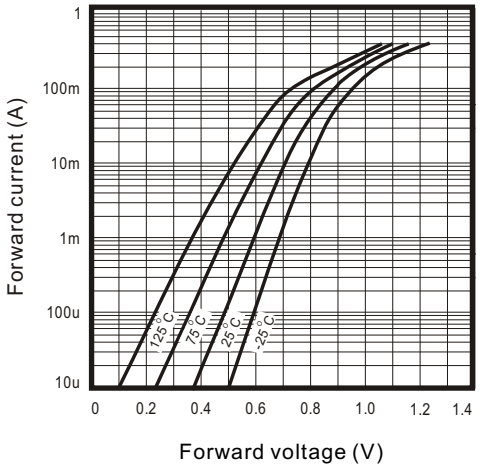


Fig. 2 - Reverse characteristics

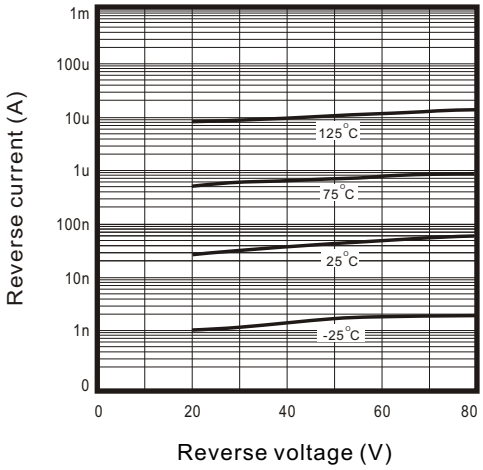


Fig.3 - Capacitance between terminals characteristics

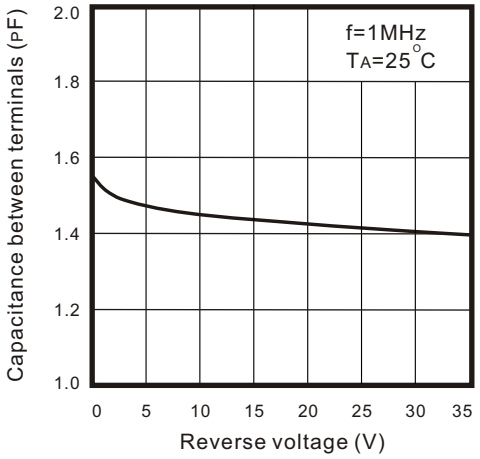


Fig.4 - Power derating curve