

## CDSV3-4148-G / 4448-G

Reverse Voltage: 75 Volts  
 Forward Current: 200mA  
 RoHS Device



### Features

Designed for mounting on small surface.

High speed switching.

High mounting capability, strong surge withstand, high reliability.

Also available in other standard case styles: CDSF4148/4448 - 1005 size  
 CDSU4148/4448 - 0603 size

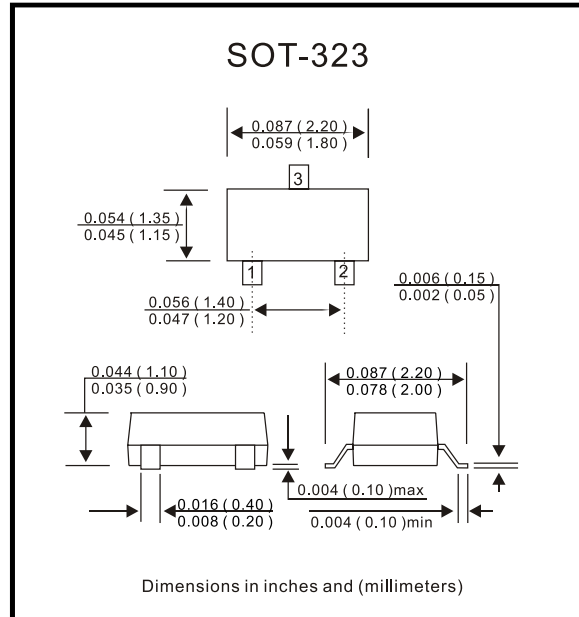
### Mechanical data

Case: SOT-323 molded plastic.

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

Polarity: Indicated by cathode band.

Approx. weight: 0.006 gram



### Maximum Ratings and Electrical Characteristics ( at Ta = 25°C unless otherwise noted )

Parameter	Condition	Symbol	CDSV3-4148-G	CDSV3-4448-G	Unit
Repetitive peak reverse voltage		V <sub>RRM</sub>	75		V
Reverse voltage		V <sub>R</sub>	75		V
Forward current		I <sub>F</sub>	200		mA
Surge peak forward current	T = 1us	I <sub>FSM</sub>	2	4	A
Power dissipation		P <sub>d</sub>	200		mW
Maximum forward voltage	@ I <sub>F</sub> = 5 mA @ I <sub>F</sub> = 50 mA @ I <sub>F</sub> = 100 mA	V <sub>F</sub>	- 1 -	0.72 - 1	V
Maximum reverse current	@ V <sub>R</sub> = 75V @ V <sub>R</sub> = 25V	I <sub>R</sub>	2.5 0.025		uA
Max reverse recovery time	I <sub>F</sub> =10mA, R=100 ohms	T <sub>rr</sub>	4		nS
Max diode capacitance	V <sub>R</sub> =0V, f=1MHz	C <sub>T</sub>	4		pF
Max. operation junction temperature		T <sub>j</sub>	125		°C
Storage temperature		T <sub>STG</sub>	-55 to +125		°C

## RATING AND CHARACTERISTIC CURVES (CDSV3-4148-G/4448-G)

Fig. 1 - Forward characteristics

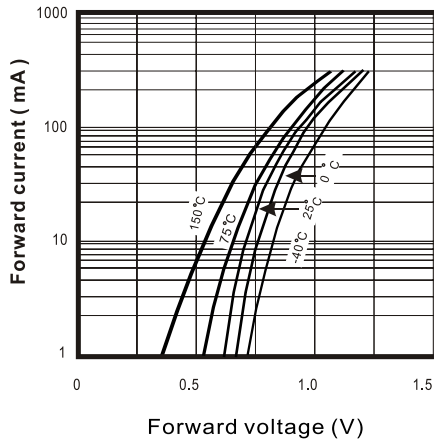


Fig. 2 - Reverse characteristics

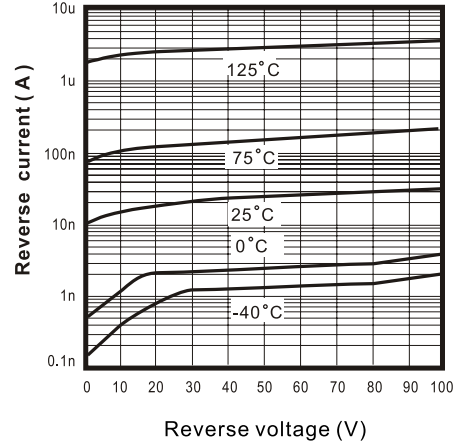


Fig. 3 - Capacitance between terminals characteristics

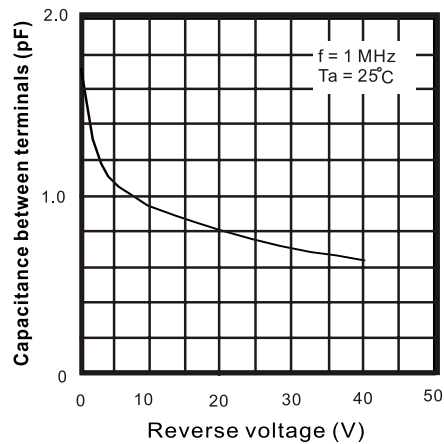


Fig. 4 - Power Derating Curve

