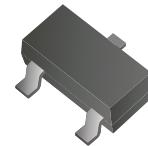


Small Signal Switching Diodes

Comchip
SMD Diode Specialist

CDSV3-4148-G/4448-G

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



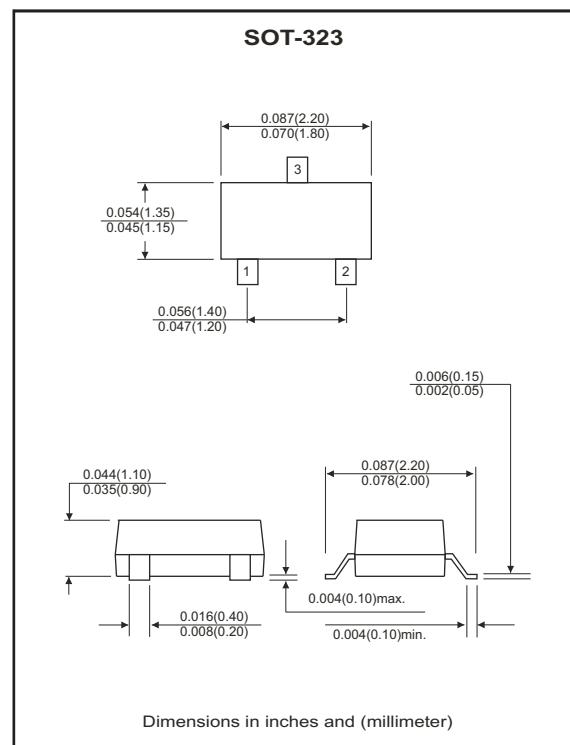
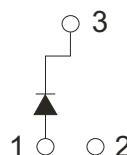
Features

- Design for mounting on small surface.
- High speed switching.
- High mounting capability, strong surge withstand, high reliability.
- Also available in other standard case:
CDSF4148/4448 - 1005 size
CDSU4148/4448 - 0603 size

Mechanical data

- Case: SOT-323, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Approx. weight: 0.006 grams

Circuit diagram



Maximum Ratings and Electrical Characteristics

(at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	CDSV3-4148-G	CDSV3-4448-G	Units
Repetitive peak reverse voltage	V _{RRM}		75		V
Reverse voltage	V _R		75		V
Forward current	I _F		200		mA
Peak surge forward current	I _{FSM}	T=1.0 μS	2	4	A
Power dissipation	P _D		200		mW
Maximum forward voltage	V _F	@I _F =5mA @I _F =50mA @I _F =100mA	- 1 -	0.72 - 1	V
Maximum reverse current	I _R	@V _R =75V @V _R =25V	2.5 0.025		μA
Maximum reverse recovery time	T _{rr}	I _F =I _R =10mA, R _L =100Ω	4		nS
Typical diode capacitance	C _J	V _R =0V, f=1.0MHz	4		pF
Maximum junction temperature	T _J		125		°C
Storage temperature	T _{STG}		-55 to +125		°C

REV:A

Small Signal Switching Diodes

Comchip
SMD Diode Specialist

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

Fig.1 - Forward Characteristics

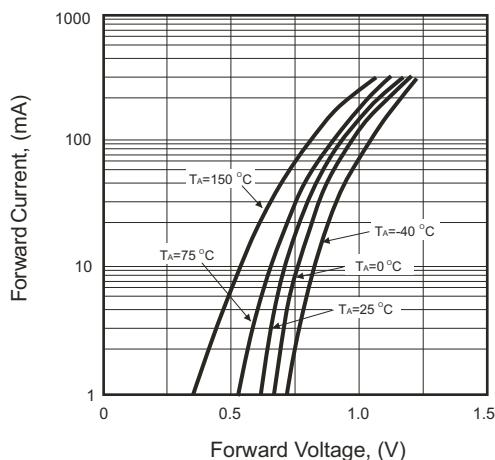


Fig.2 - Reverse Characteristics

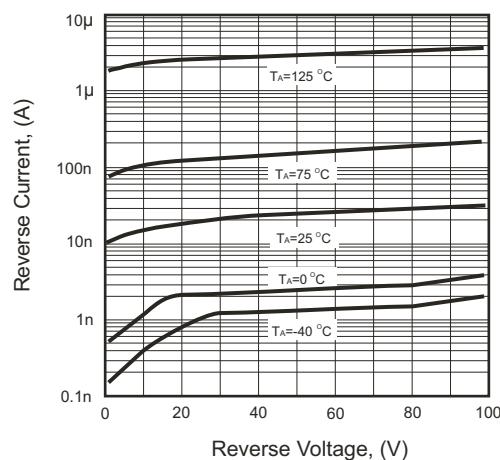


Fig.3 - Capacitance Between Terminals Characteristics

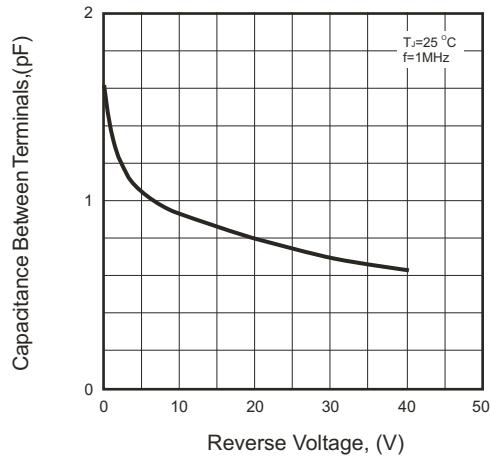


Fig.4 - Power Derating Curve

