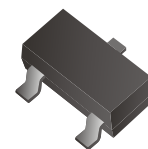


CDSV3-4148-G/4448-G

Reverse Voltage: 75 Volts

Forward Current: 200 mA

RoHS Device



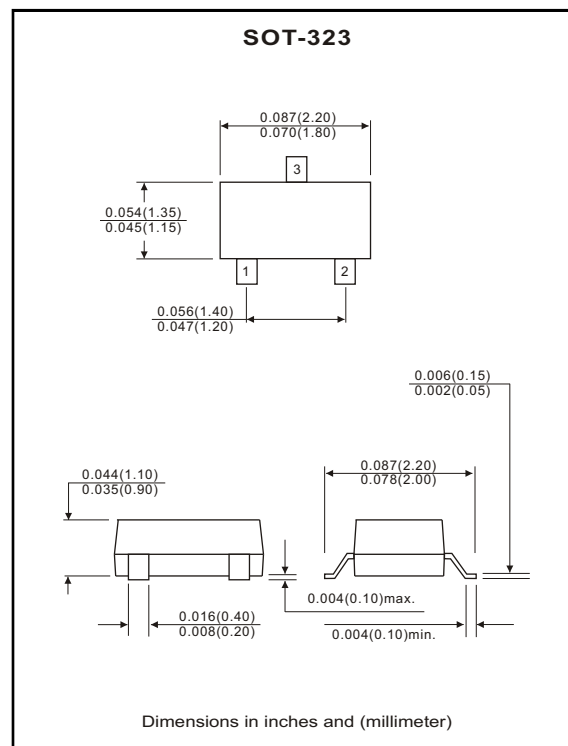
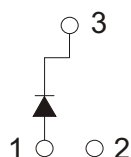
Features

- 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 μ S	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		μ A
Maximum reverse recovery time	T_{rr}	I_F =10mA, R_L =100 Ω	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

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

Fig.1 Forward Characteristics

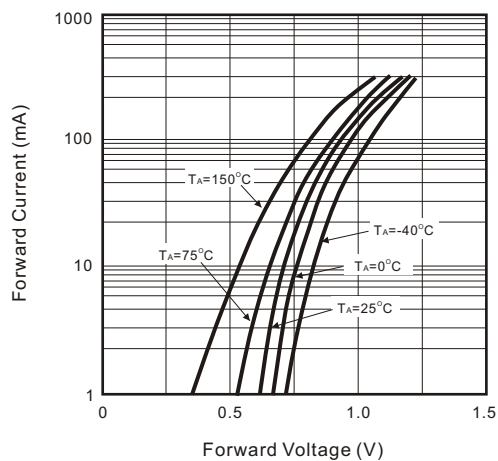


Fig.2 Reverse Characteristics

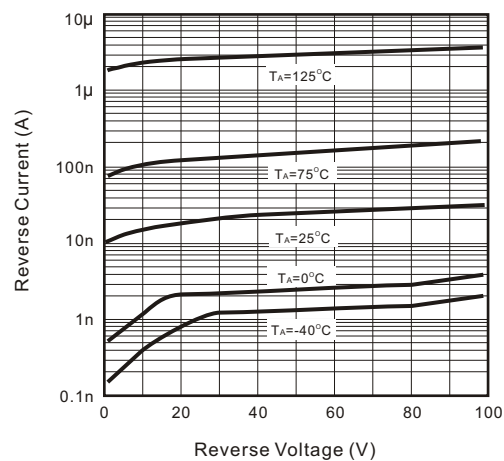


Fig.3 Capacitance Between Terminals Characteristics

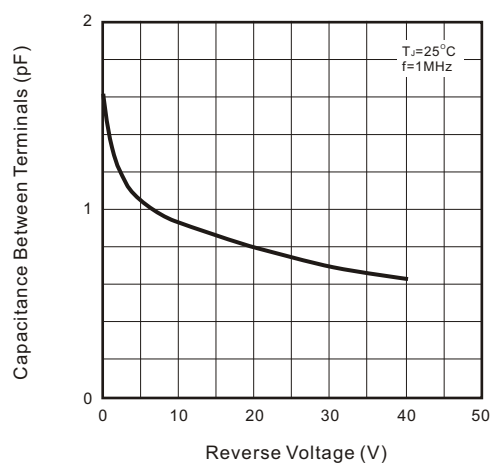


Fig.4 Power Derating Curve

