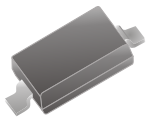
Small Signal Switching Diodes

COMCHIP
SMD Diodes Specialist

CDSW4448-G

Reverse Voltage: 75 Volts
Power Dissipation: 400 mW
RoHS Device



Features

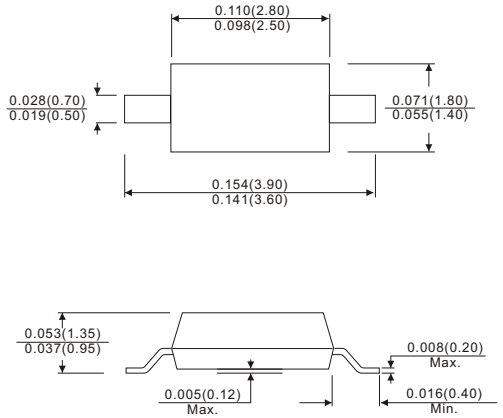
-Design for mounting on small surface.

-High speed switching.

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

-Also available in other standard case:
CDSN4448 - 1206 size
CDSF4448 - 1005 size
CDSU4448 - 0603 size

SOD-123



Dimensions in inches and (millimeter)

Mechanical data

-Case: SOD-123, molded plastic.

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

-Polarity: indicated by cathode band.

-Approx. weight: 0.01 grams

Maximum Ratings and Electrical Characteristics

(at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Value	Units
Repetitive peak reverse voltage	V_{RRM}		75	V
Reverse voltage	V_R		75	V
Forward current	I_{FM}		500	mA
Peak surge forward current	I_{FSM}	T=1.0 μS	4	A
Power dissipation	P_D		400	mW
Maximum forward voltage	V_F	@I_F=5mA @I_F=10mA @I_F=100mA @I_F=150mA	0.72 0.855 1 1.25	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=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

RATING AND CHARACTERISTIC CURVES (CDSW4448-G)

Fig.1 Forward Characteristics

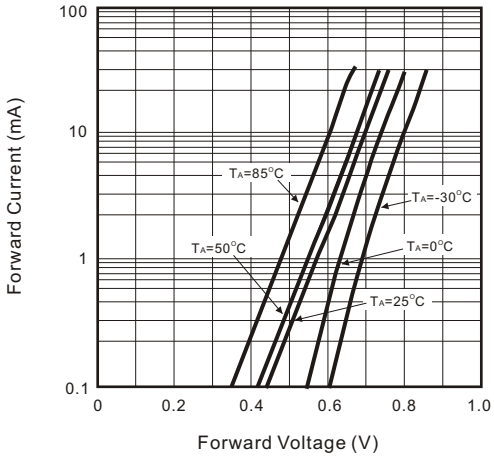


Fig.2 Reverse Characteristics

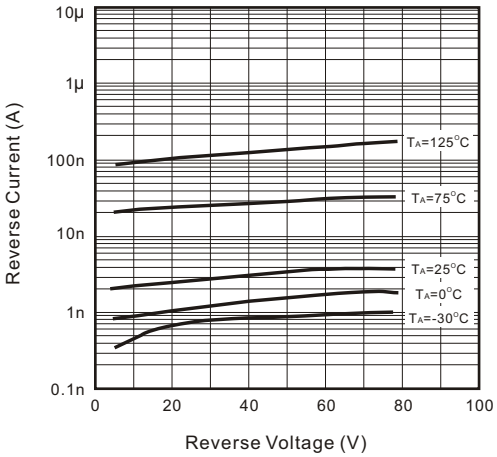


Fig.3 Capacitance Between Terminals Characteristics

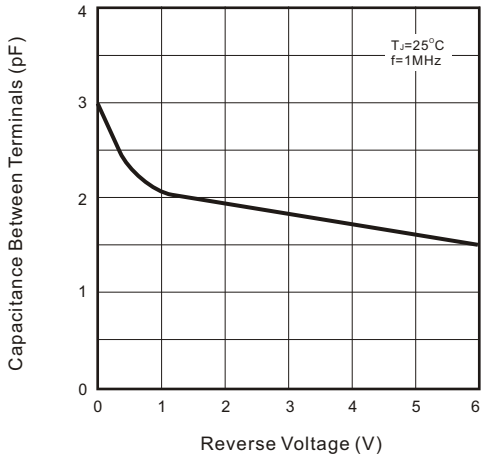


Fig.4 Power Derating Curve