

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Comchip Technology](#)
[CDSW4448-G](#)

For any questions, you can email us directly:

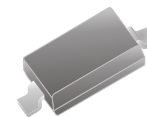
sales@integrated-circuit.com

Small Signal Switching Diodes



CDSW4448-G

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

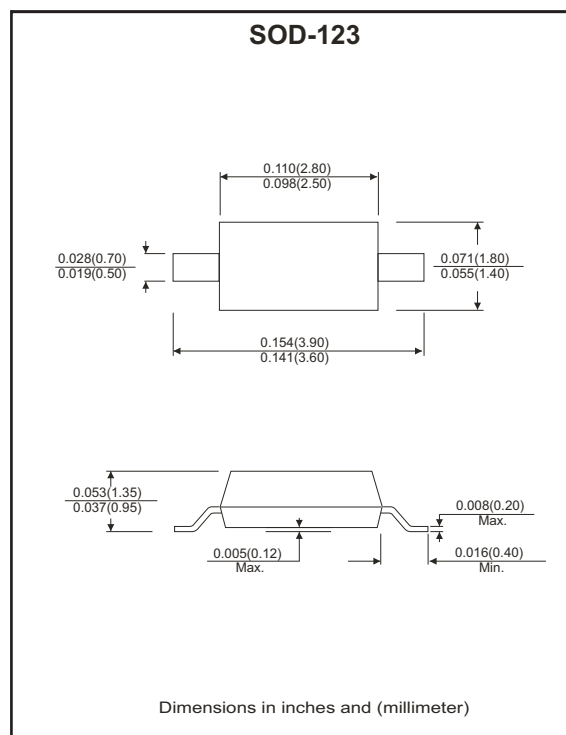


Features

- 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

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 μ S	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	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

Small Signal Switching Diodes



RATING AND CHARACTERISTIC CURVES (CDSW4448-G)

Fig.1 - Forward Characteristics

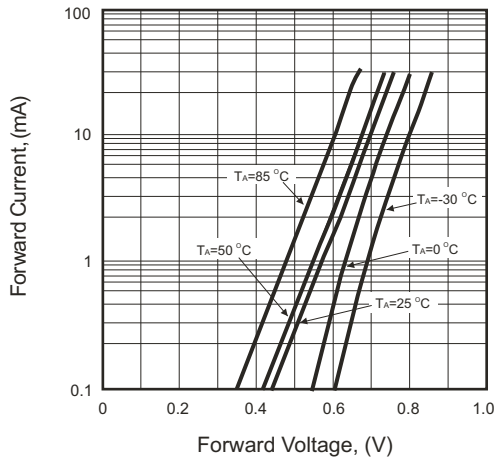


Fig.2 - Reverse Characteristics

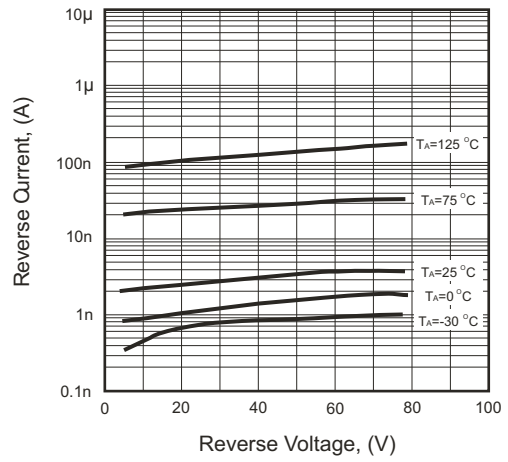


Fig.3 - Capacitance Between Terminals Characteristics

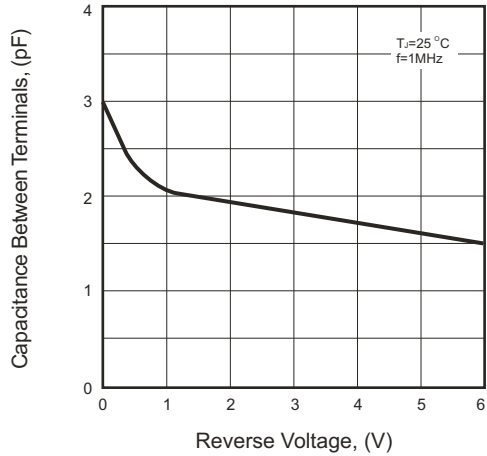


Fig.4 - Power Derating Curve

