

## CDSW4448-G

Voltage: 75 Volts  
Pd:400mW  
RoHS Device

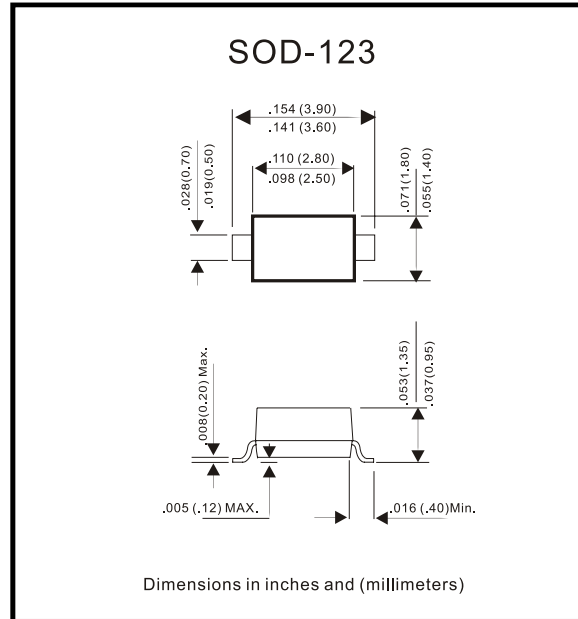


### Features

- Designed for mounting on small surface
- High speed switching.
- High mounting capability, strong surge withstand, high reliability.
- Also available in other smaller standard case styles:  
CDSN4448 - 1206 size  
CDSF4448 - SOD-323F size  
CDSU4448 - SOD-523F size

### Mechanical data

- Case:SOD-123, molded plastic.
- Terminals: Solder plated, solderable per MIL-STD-750, method 208.
- Polarity: Indicated by cathode band.
- Approx. Weight: 0.01 gram



### Maximum Ratings and Electrical Characteristics

( at Ta = 25°C unless otherwise noted )

Parameter	Condition	Symbol	Value	Unit
Repetitive peak reverse voltage		VRRM	75	V
Reverse voltage		VR	75	V
Forward continue current		IFM	500	mA
Surge peak forward current	T = 1us	IFSM	4	A
Power dissipation		Pd	400	mW
Maximum forward voltage	@ IF = 5 mA @ IF = 10 mA @ IF = 100 mA @ IF = 150 mA	VF	0.72 0.855 1 1.25	V
Maximum reverse current	@ VR = 75V @ VR = 20V	IR	2.5 0.025	uA
Max reverse recovery time	IF=10mA, R=100 ohms	Trr	4	nS
Max diode capacitance	VR=0V, f=1MHz	CT	4	pF
Max. operation junction temperature		Tj	125	°C
Storage temperature		TSTG	-55 to +125	°C



## RATING AND CHARACTERISTIC CURVES (CDSW4148-G)

Fig. 1 - Forward characteristics

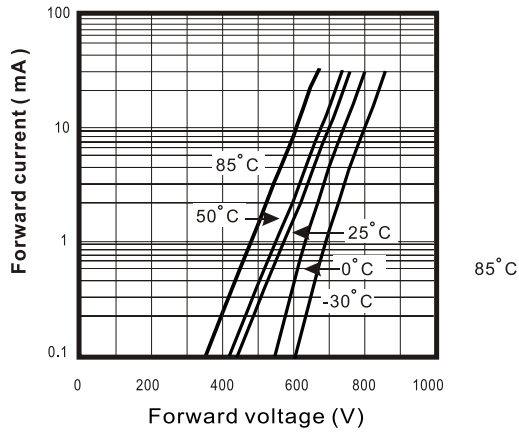


Fig. 2 - Reverse characteristics

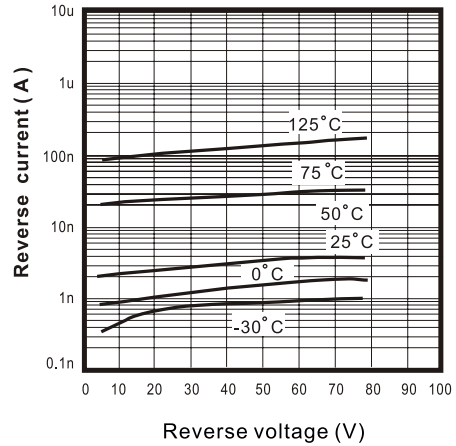


Fig. 3 - Capacitance between terminals characteristics

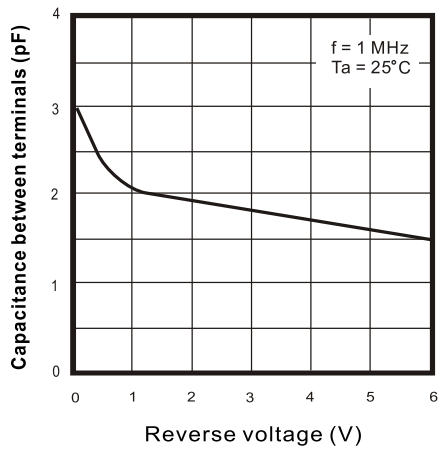


Fig. 4 - Power Derating Curve

