

Small Signal Switching Diodes



CDSL4148-G/ 4448-G

Reverse Voltage: 75 Volts
Forward Current: 500mW
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 case styles:
CDSF4148/4448 - SOD323F (1005) size
CDSU4148/4448 - SOD523F (0603) size

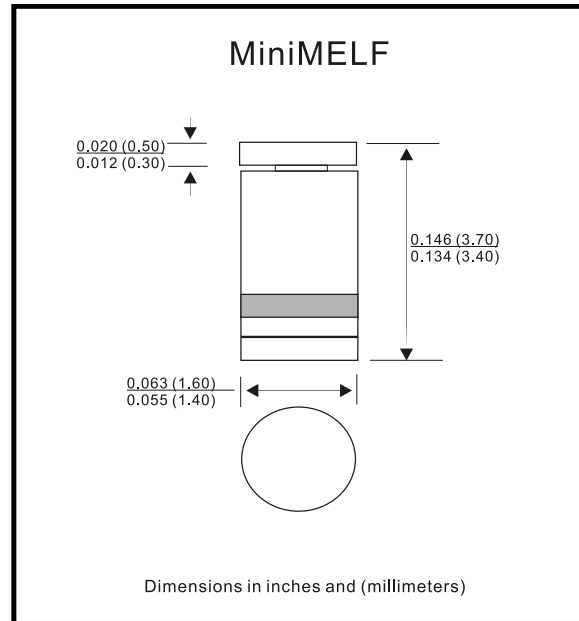
Mechanical data

Case: MiniMelf glass case.

Terminals: Solder plated, solderable per MIL-STD-750, method 208.

Polarity: Indicated by cathode band.

Approx. weight: 0.05 gram



Maximum Ratings and Electrical Characteristics

(at Ta = 25°C unless otherwise noted)

Parameter	Condition	Symbol	CDSL-4148-G	CDSL-4448-G	Unit
Repetitive peak reverse voltage		VRRM	75		V
Reverse voltage		VR	75		V
Forward current		IF	300	500	mA
Surge peak forward current	T = 1us	IFSM	2		A
Power dissipation		Pd	500		mW
Maximum forward voltage	@ IF = 5 mA @ IF = 10 mA @ IF = 100 mA	VF	- 1 -	0.72 - 1	V
Maximum reverse current	@ VR = 75V @ VR = 25V	IR	2.5 0.025		uA
Max reverse recovery time	VR=6V, IF=10mA, R=50 ohms	Trr	4		nS
Max diode capacitance	VR=0V, f=1MHz	CT	4		pF
Max. operation junction temperature		Tj	175		°C
Storage temperature		TSTG	-65 to +175		°C

RATING AND CHARACTERISTIC CURVES (CDSL4148-G/4448-G)

Fig. 1 - Forward characteristics

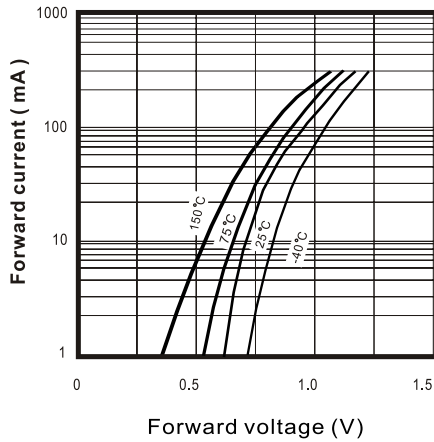


Fig. 2 - Reverse characteristics

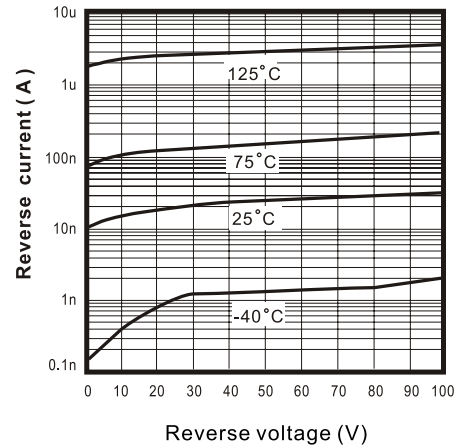


Fig. 3 - Capacitance between terminals characteristics

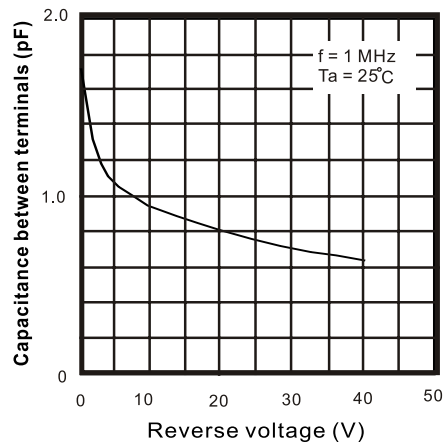


Fig. 4 - Power Derating Curve

