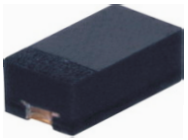
SMD Switching Diode

CDSF4448

Io = 125 mA
VR = 80 Volts
RoHS Device



Features

-Fast Switching Speed

-Designed for mounting on small surface.

-Extremely thin/leadless package.

Mechanical data

-Case: 1005/SOD-323F Standard package , molded plastic.

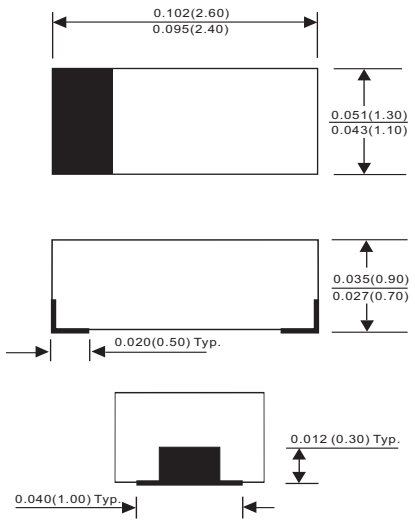
-Terminals: Gold plated, solderable per MIL-STD-750, method 2026.

-Polarity: Indicated by cathode band.

-Mounting position: Any.

-Weight: 0.006 gram (approx.).

1005/SOD-323F



Dimensions in inches and (millimeter)

Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		VRRM			100	V
Reverse voltage		VR			80	V
Average forward rectified current		Io			125	mA
Forward current,surge peak	t = 1 us t = 8.3ms	IFSM			2 1	A A
Storage temperature		TSTG	-40		+125	°C
Junction temperature		Tj	-40		+125	°C

Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	IF = 5 mA IF= 100 mA	VF	0.62		0.72 1	V V
Reverse current	VR = 30 V VR = 80 V	IR			25 100	nA nA
Capacitance between terminals	f = 1 MHz, and 0.5 VDC reverse voltage	CT			9	pF
Reverse recovery time	IF = IR = 10mA,Irr=0.1 X IR,RL=100ohm	Trr			9	NS

RATING AND CHARACTERISTIC CURVES (CDSF4448)

Fig. 1 - Forward characteristics

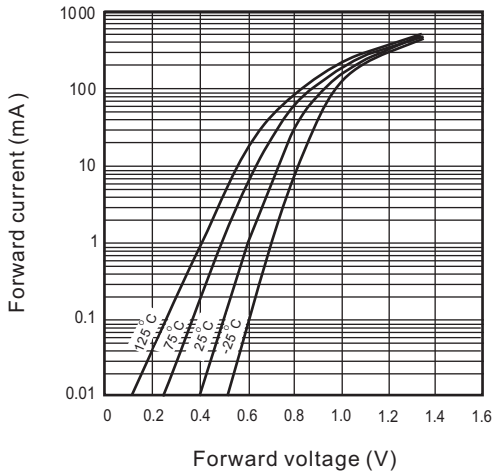


Fig. 2 - Reverse characteristics

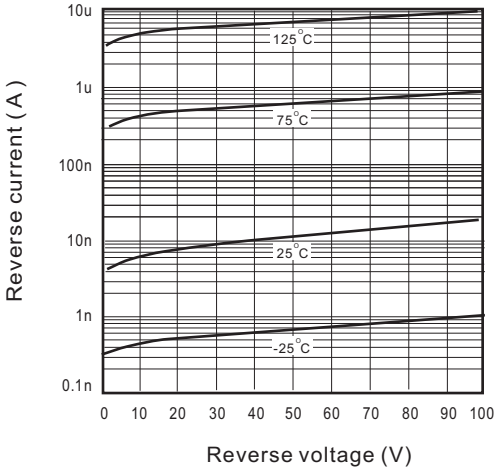


Fig. 3 - Capacitance between terminals characteristics

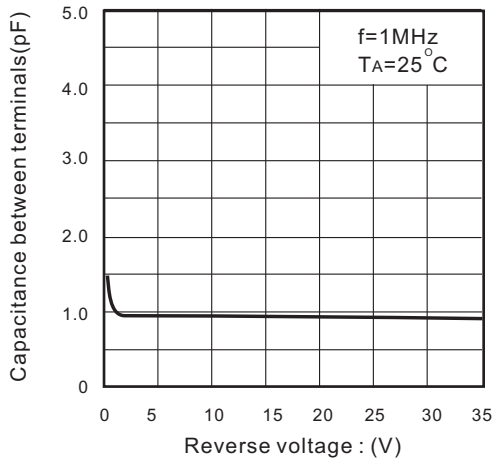


Fig. 4 - Current derating curve