

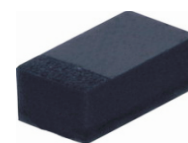
SMD Switching Diode



SMD Diodes Specialist

CDSER4448(RoHs Device)

High Speed

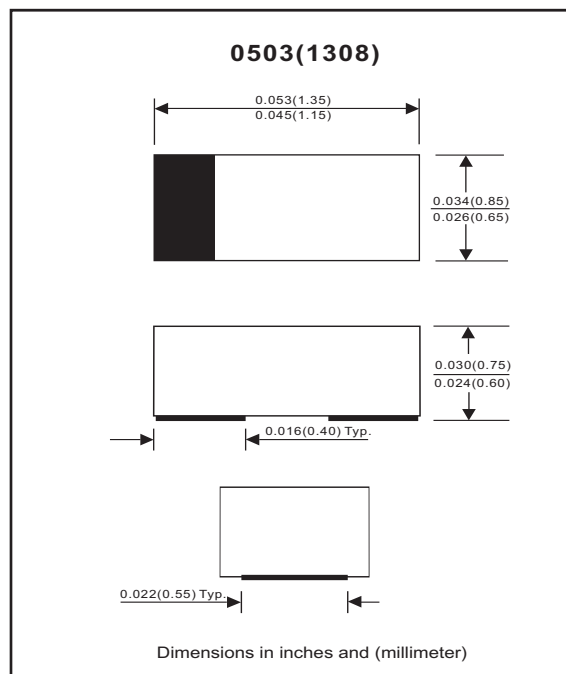


Features

- Fast Switching Speed.
- Designed for mounting on small surface.
- Extremely thin/leadless package.

Mechanical data

- Case: 0503(1308) standard package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750,method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any
- Weight: 0.002 gram(approx.).



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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V _{RRM}			100	V
Reverse voltage		V _R			80	V
Average forward current		I _O			125	mA
Forward current,surge peak	T _P = 1μS T _P = 8.3mS	I _{FSM}			2 1	A
Power Dissipation		P _D			150	mW
Storage temperature		T _{STG}	-40		+125	°C
Junction temperature		T _J			+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 5 mA I _F = 100 mA	V _F	0.62		0.72 1	V
Reverse current	V _R = 20 V V _R = 80 V	I _R			25 100	nA
Capacitance between terminals	f = 1 MHz, and 0.5 VDC reverse voltage	C _T			9	pF
Reverse recovery time	I _F = I _R = 10mA, I _{rr} =0.1 X I _R , R _L =100ohm	T _{rr}			9	nS

REV:A

RATING AND CHARACTERISTIC CURVES (CDSER4448)

Fig. 1 - Forward characteristics

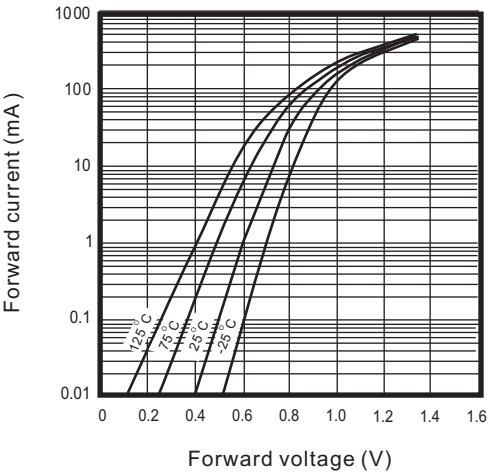


Fig. 2 - Reverse characteristics

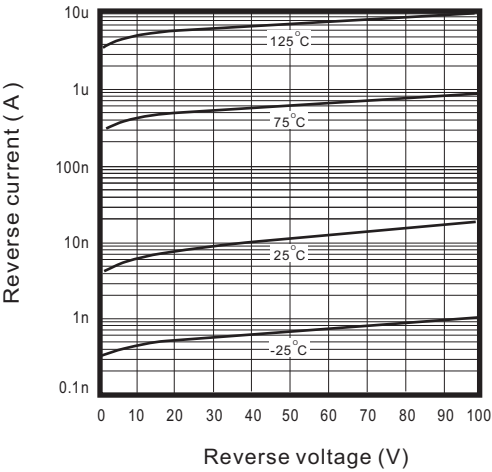


Fig. 3 - Capacitance between terminals characteristics

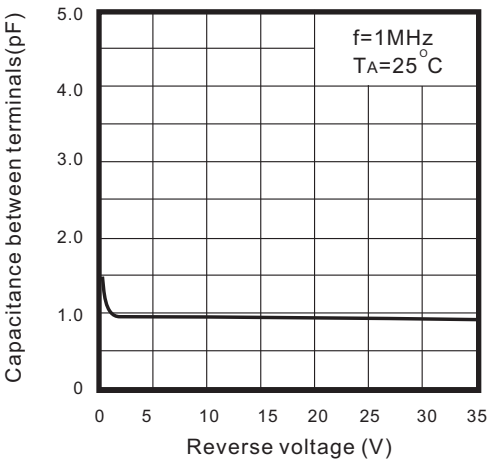


Fig. 4 - Current derating curve

