

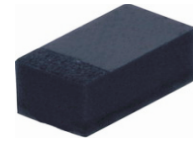
SMD Switching Diode



SMD Diodes Specialist

CDSER4148(RoHs Device)

High Speed

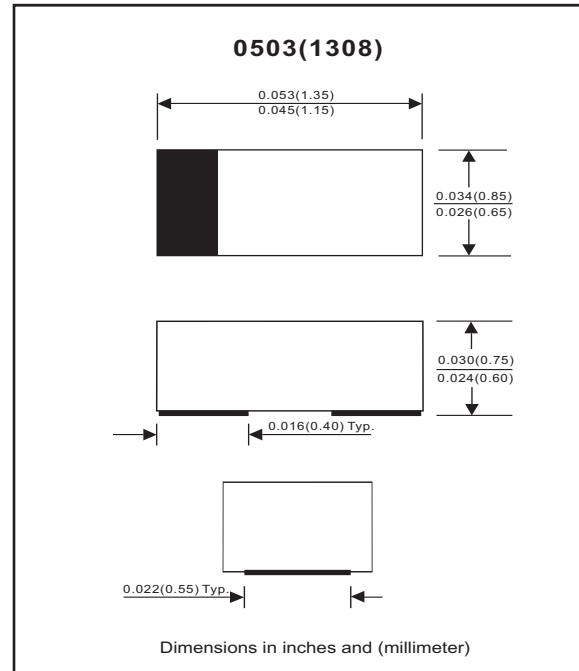


Features

- Designed for mounting on small surface.
- Extremely thin/leadless package.
- High mounting capability, strong surge withstand, high reliability.

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			75	V
Average forward current		I _O			150	mA
Forward current,surge peak	T _P = 1μS T _P = 1mS	I _{FSM}		4 1		A
Repetitive peak forward current		I _{FRM}			300	mA
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 = 50 mA DC	V _F			1.0	V
Reverse current	V _R = 20 V V _R = 75 V	I _R			25 2.5	nA μA
Capacitance between terminals	f = 1 MHz, and 0VDC reverse voltage	C _T			4	pF
Reverse recovery time	I _F = I _R = 10 mA, R _L = 100 ohms, I _{rr} = 1 mA	T _{rr}			4	nS

RATING AND CHARACTERISTIC CURVES (CDSER4148)

Fig. 1 - Forward characteristics

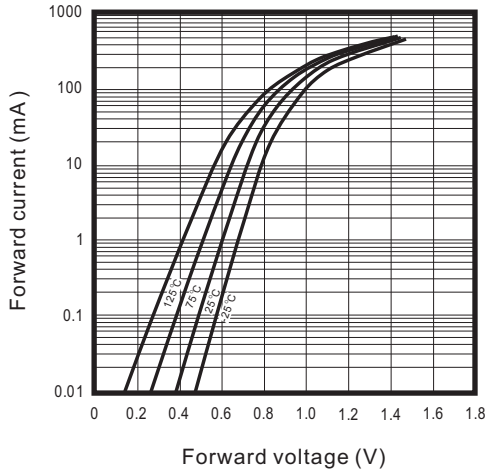


Fig. 2 - Reverse characteristics

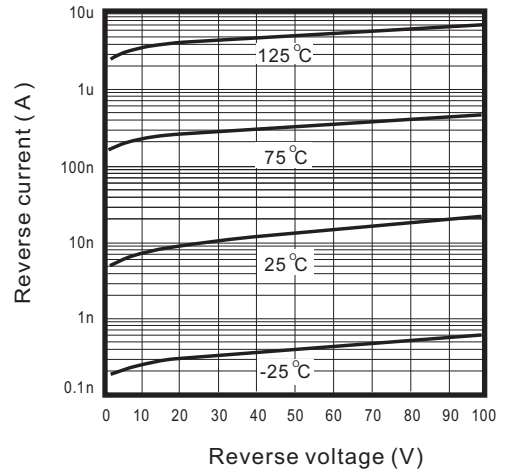


Fig. 3 - Capacitance between terminals characteristics

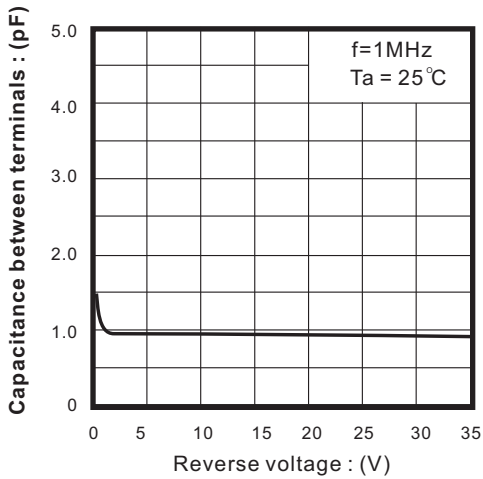


Fig. 4 - Current derating curve

