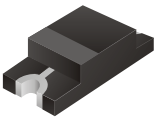
SMD Switching Diode

FormosaMS
www.formosams.com

CDSN4148

High Speed

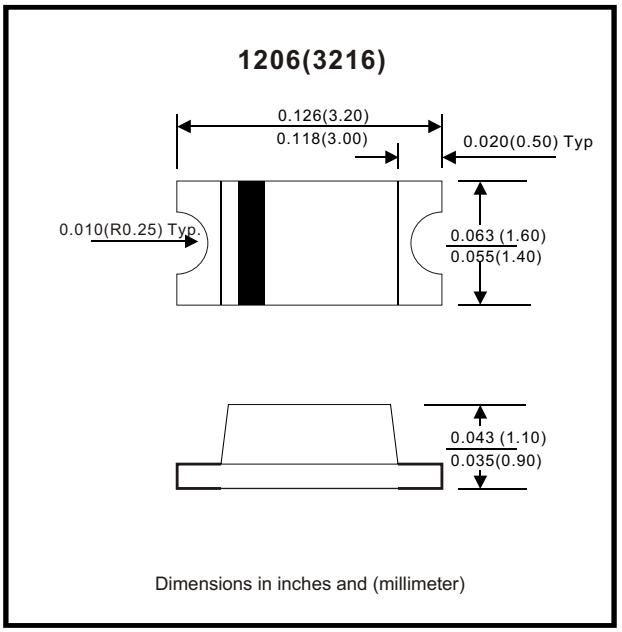


Features

Designed for mounting on small surface.

High speed switching.

High mounting capability, strong surge withstand, high reliability.



Mechanical data

Case: 1206(3216) standard package, molded plastic.

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

Polarity: Indicated by cathode band.

Mounting position: Any.

Weight: 0.0085 gram. (approximately)

Maximum Rating (at T_A = 25℃ 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		Io			150	mA
Forward current , surge peak	T_p = 1us T_p = 1s	I_{FSM}		4 1		A
Power Dissipation		P_D			350	mW
Storage temperature		T_{STG}	-55		+175	℃
Junction temperature		Tj	-55		+175	℃

Electrical Characteristics (at T_A = 25℃ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I_F = 50 mADC	V_F			1.0	V
Reverse current	V_R = 20 V V_R = 75 V	I_R			25 2.5	nA uA
Capacitance between terminals	f = 1MHz, and 0 VDC reverse voltage	C_T			3	pF
Reverse recovery time	V_R = 6V, I_F = 10 mA, R_L =50 ohms	Trr			4	nS

RATING AND CHARACTERISTIC CURVES (CDSN4148)

Fig. 1 - Forward characteristics

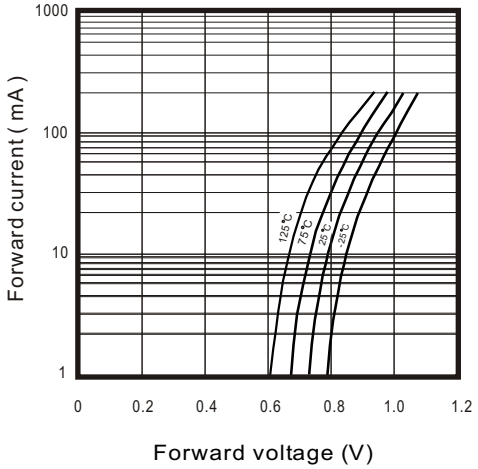


Fig. 2 - Reverse characteristics

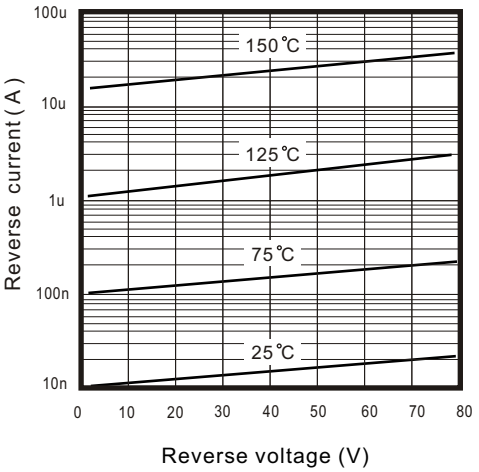


Fig. 3 - Capacitance between terminals characteristics

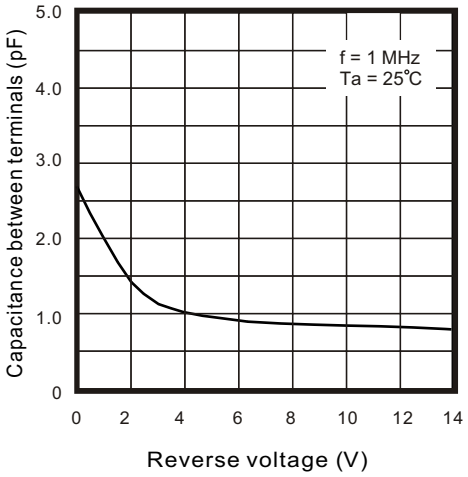


Fig. 4 - Current derating curve

