

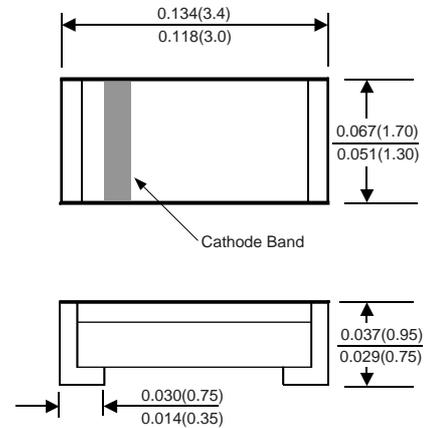
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

1206

Features

- Designed for mounting on small surface
- High speed
- High mounting capability, strong surge withstand, high reliability



Dimensions in inches and (millimeters)

Mechanical data

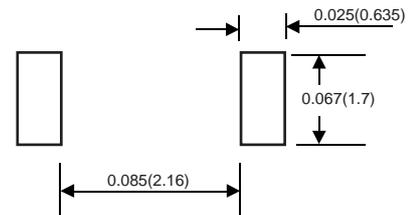
Case : 1206, Molded plastic

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

Polarity : Indicated by cathode band

Mounting Position : Any

Recommended Pad Layout



MAXIMUM RATINGS (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Repetitive peak reverse voltage		V_{RM}			100	V
Continuous reverse voltage		V_R			75	V
Mean rectifying current		I_O			150	mA
Forward surge current	1 sec. single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}		0.3		A
Power dissipation		P_d			350	mW
Storage temperature		T_J		+125		$^{\circ}\text{C}$
Operating temperature		T_{STG}	-55		+125	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F = 50\text{mA}$ DC	V_F		0.95	1.00	V
Reverse current	$V_R = 75\text{V}$	I_R		0.5	5	μA
Capacitance between terminals	$f=1\text{MHz}$ and applied 0V DC reverse voltage	C_T			3	pF
Reverse recovery time	$V_R=6\text{V}$, $I_F=10\text{mA}$, $R_L=50\ \Omega$	tr			4	nS

RATING AND CHARACTERISTIC CURVES (SCS4148N)

Fig. 1 Forward characteristics

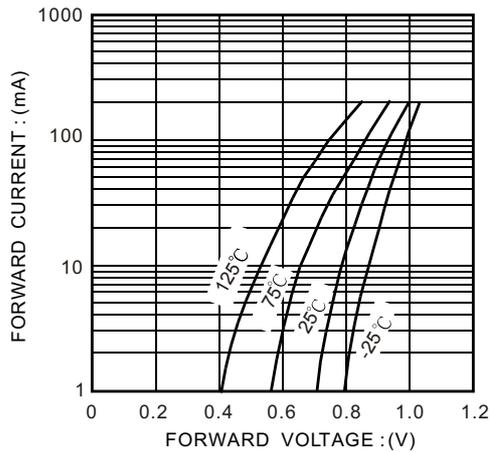


Fig. 2 Reverse characteristics

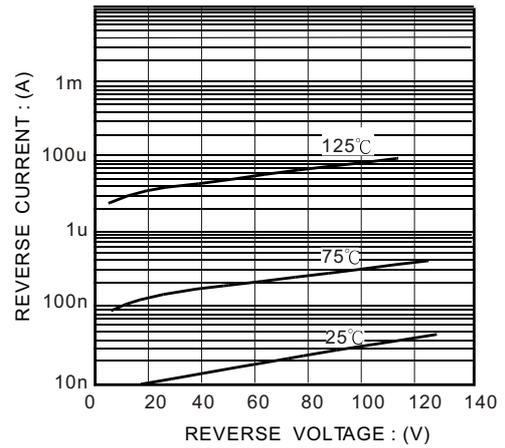


Fig. 3 Derating curve

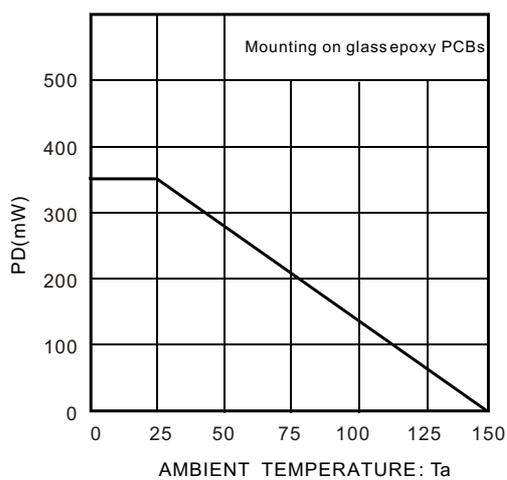


Fig. 4 Capacitance between terminals characteristics

