Elektronische Bauelemente

SCS4148N

Surface Mount Switching Diode

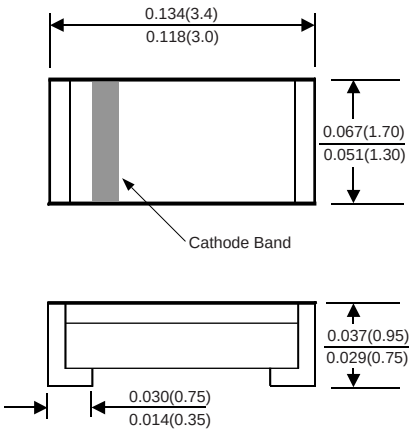
RoHS Compliant Product

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

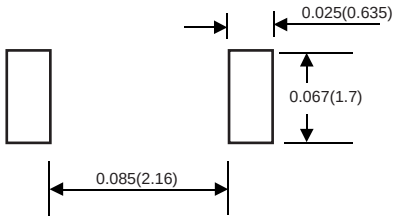


Dimensions in inches and(millimeters)

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°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 methode)	I_{FSM}		0.3		A
Power dissipation		P_d			350	mW
Storage temperature		T_J		+125		°C
Operating temperature		T_{STG}	-55		+125	°C

ELECTRICAL CHARACTERISTICS (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	IF = 50mA DC	V_F		0.95	1.00	V
Reverse current	V_R = 75 V	I_R		0.5	5	uA
Capacitance between terminals	f=1MHz and applied 0V DC reverse voltage	C_T			3	pF
Reverse recovery time	V_R=6V, I_F=10mA, R_L=50 Ω	trr			4	nS

RATING AND CHARACTERISTIC CURVES (SCS4148N)

Fig. 1 Forward characteristics

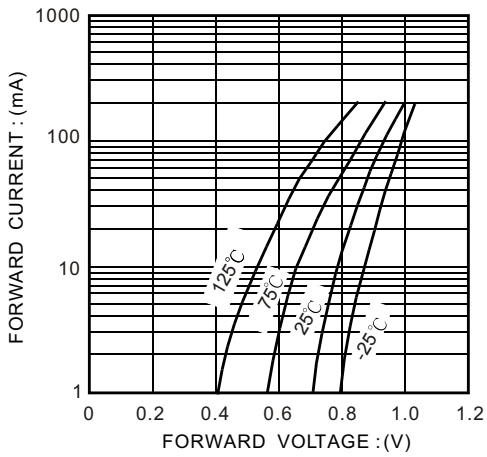


Fig. 2 Reverse characteristics

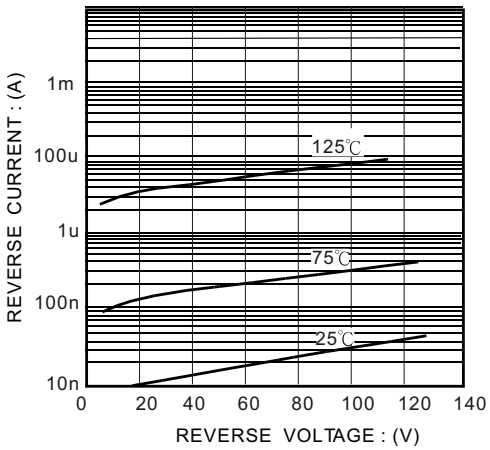


Fig. 3 Derating curve

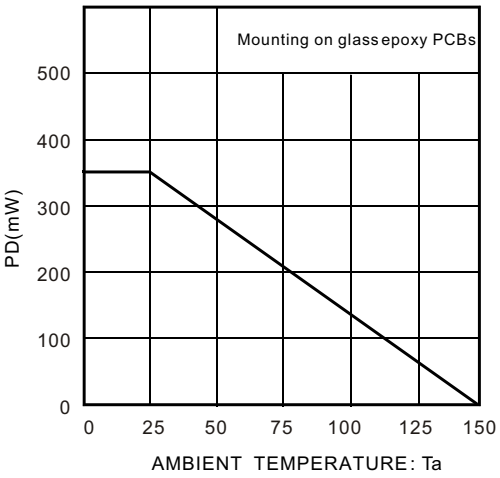


Fig. 4 Capacitance between terminals characteristics