Elektronische Bauelemente

LL4148

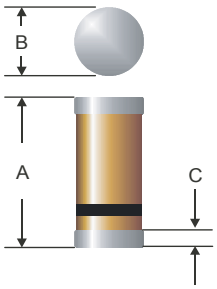
Surface Mount Switching Diode

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

DESCRIPTION

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

MINI MELF



Dimensions in mm

MECHANICAL DATA

Items	Materials	
Package	Mini MELF	
Case	Hermetically sealed glass	
Lead Finish	Solder Plating	
Packaging Dimensions (mm)		
Symbol	Min	Max
A	3.202	3.505
B	1.397	1.499
C	0.350	0.500

Polarity: Indicated by Cathode band
Mounting Position: Any

ABSOLUTE MAXIMUM RATINGS (at Ta = 25°C unless otherwise specified)

Parameter	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}	-	500	-	mA
Power Dissipation	P_D	-	-	500	mW
Thermal Resistance	$R_{\theta JA}$	-	-	350	℃ / W
Operating Temperature	T_J	-65	-	+150	℃
Storage Temperature	T_{STG}	-65	-	+175	℃

ELECTRICAL CHARACTERISTICS (at Ta = 25°C unless otherwise specified)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V_F	-	0.93	1.00	V	I_F = 10 mA DC
Reverse Current	I_R	-	0.02	5	uA	V_R = 75 V
Capacitance Between Terminals	C_T	-	-	4	pF	f = 1MHz and applied 0 V DC reverse voltage
Reverse Recovery Time	T_{RR}	-	-	4	nS	V_R = 6V, I_F = 10 mA, R_L = 50Ω

Note: Wave soldering technique not advised, a small amount of liability issues may occur.

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RATINGS AND CHARACTERISTIC CURVES (LL4148)

Fig. 1 Forward characteristics

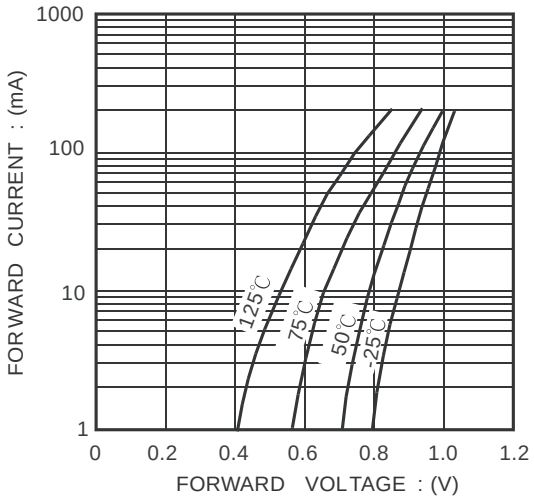


Fig. 2 Reverse characteristics

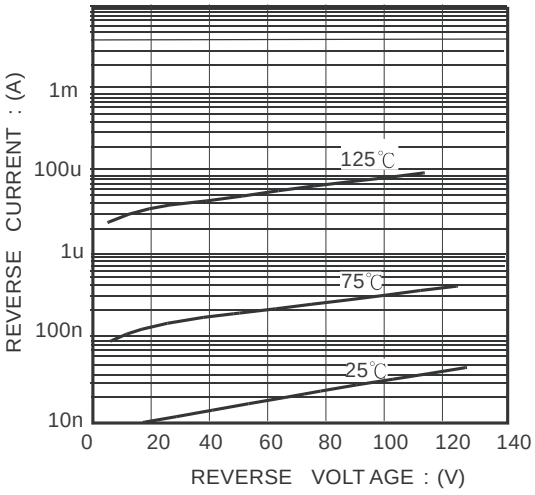


Fig. 3 Derating curve

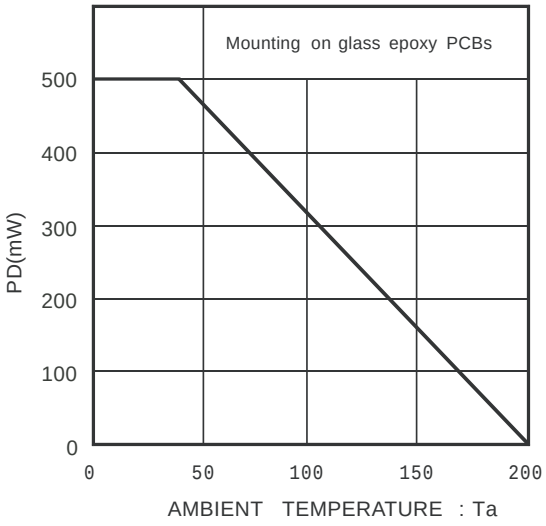


Fig. 4 Capacitance between terminals characteristics

