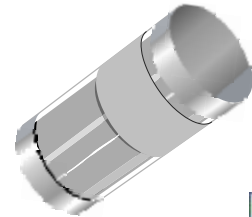


Surface Mount Switching Diode

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- General Purpose Rectification
- Silicon Epitaxial Planar Construction
- RoHS compliant



MiniMELF
(SOD-80C)



Mechanical Data

Case:	MiniMelf (SOD-80C), Glass Case
Terminals:	Solderable per MIL-STD-202, Method 208
Weight:	0.03 grams

Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	LL4148	LL4448	Unit	Conditions
V_{RM}	Reverse Voltage	75		V	
V_{RRM}	Peak Reverse Voltage	100		V	
I_{F(AV)}	Forward Average Current	150		mA	Valid provided that electrodes are kept at ambient temperature
I_{FSM}	Peak Forward Surge Current, Pulse Width=1.0us	2.0		A	
P_D	Power Dissipation above 25°C	500		mW	
V_F	Forward Voltage	Min	---	0.62 @ 5mA	V
		Max	1.0 @ 50mA	0.72 @ 5mA	
				1.0 @ 100mA	
I_R	Max. Reverse Current	0.025	0.025	μA	VR=20V
		5.0	5.0		VR=75V
C_D	Diode Capacitance	4.0		pF	VR=0V, f=1MHz
T_{rr}	Reverse Recovery Time	4.0		ns	IF= 10mA, IR=1mA, VR=6V, RL=100Ω
T_J	Junction Temperature	175		°C	
T_{STG}	Storage Temperature Range	-65 to +175		°C	

Typical Characteristics Curves

Fig.1- Power Derating Curve

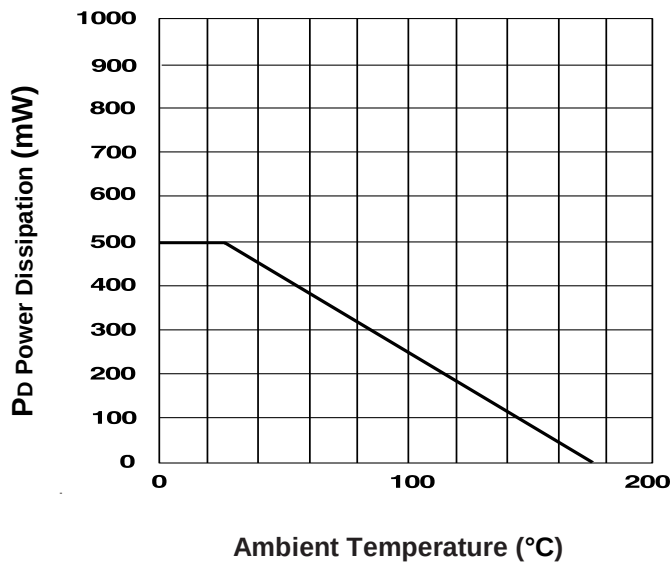


Fig.2- Typical Forward Characteristics

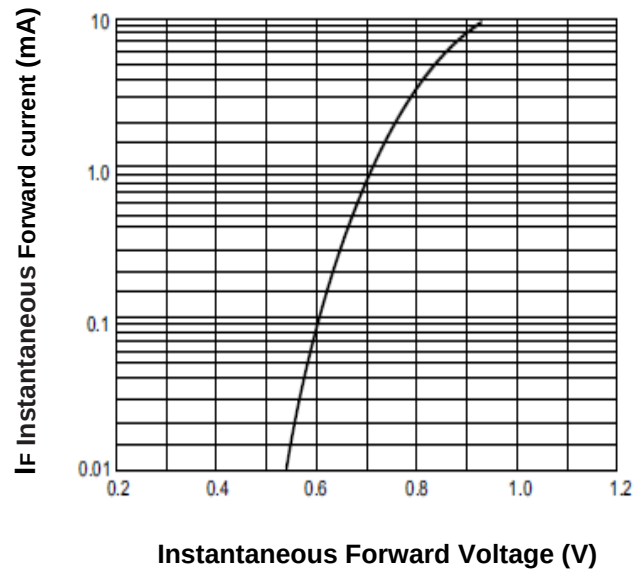


Fig.3- Typical junction capacitance

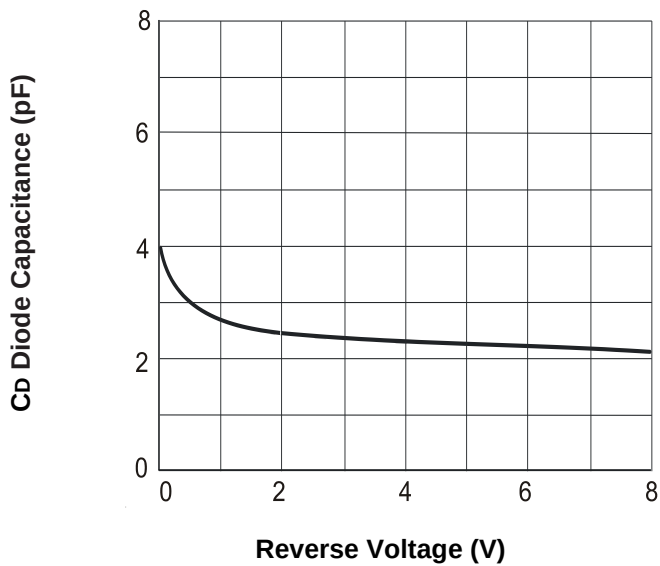
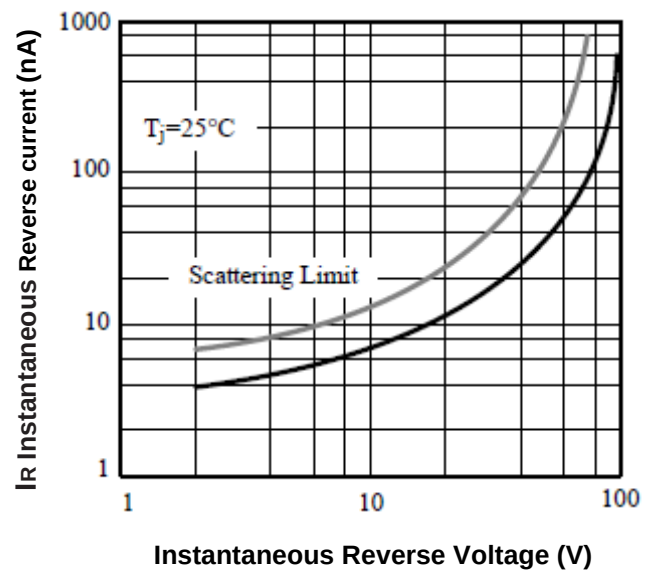


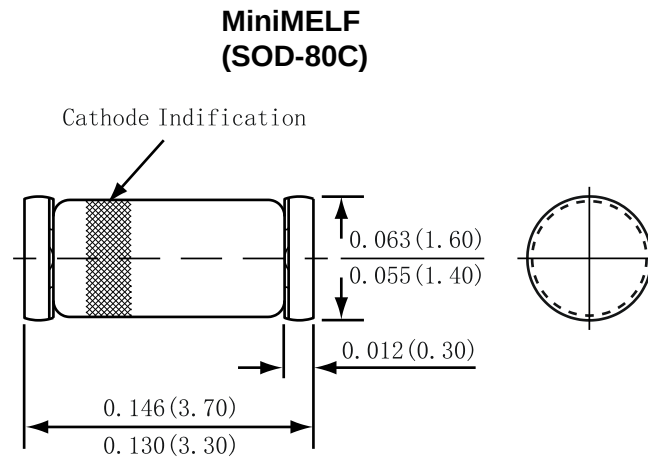
Fig.4- Typical Reverse Characteristics



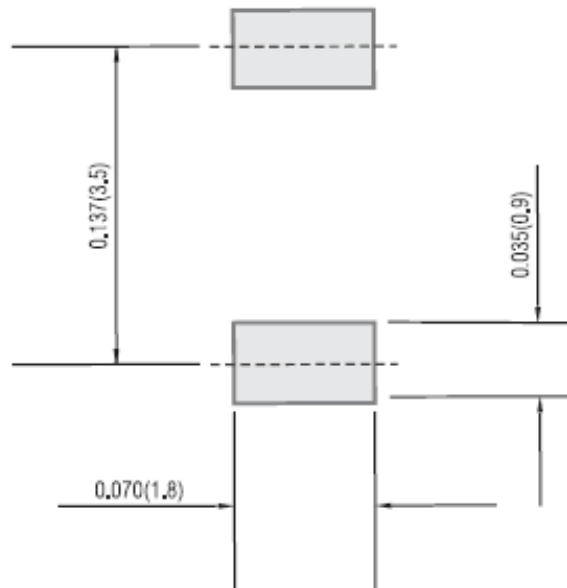
Surface Mount Switching Diode

LL4148 LL4448

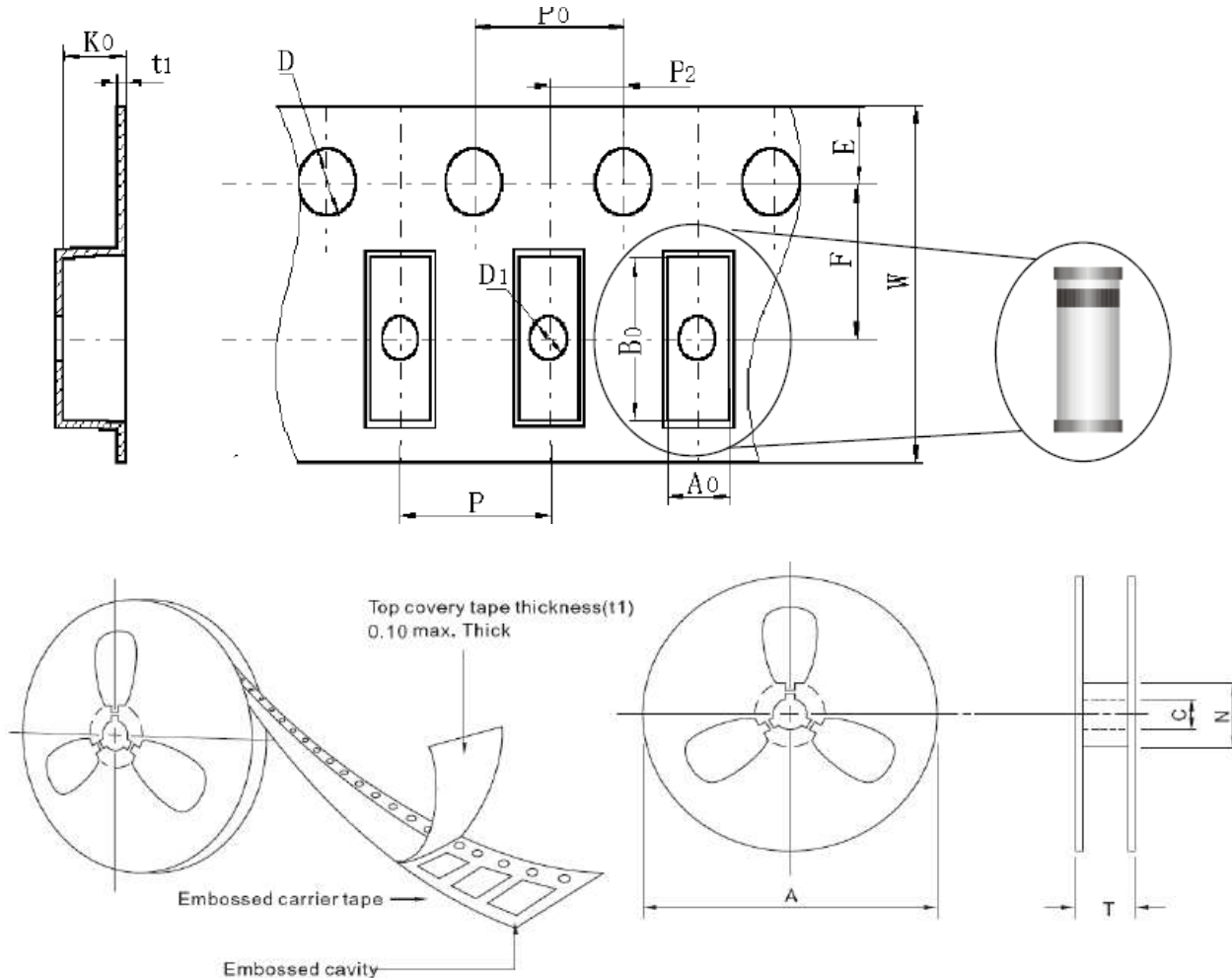
Dimensions in inches (mm)



Mounting Pad Layout in inches (mm)



Packing Information in mm

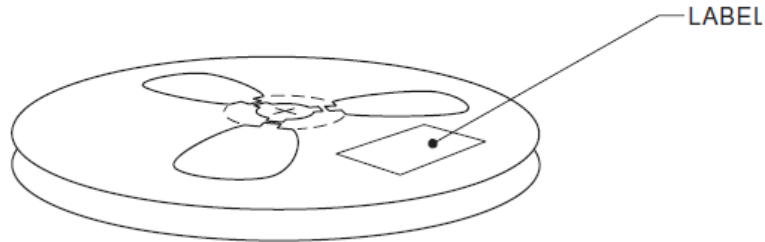


A	N	C	T	P	E	F	P2
180 Max.	60 Min.	13.0±0.5	14.9 Max.	4.0±0.1	1.75±0.1	3.5±0.05	2.0±0.1
D	D1	Po	W	Ao	Bo	Ko	T1
1.50±0.05	1.0±0.1	4.0±0.1	8.0±0.3	1.6±0.1	3.7 Max.	1.8 Max.	0.25 Max.

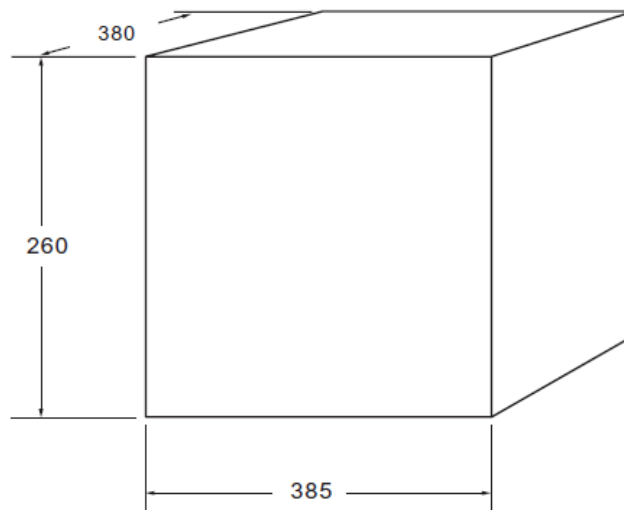
Note:

1. Symbol A0, B0, K0 are determined by the component size. The clearance between the component and the cavity must be within 0.05 mm min. to 0.65 mm max. for 12 mm tape. 0.05 mm min. to 0.90 mm max. for 16 mm tape
2. In addition, the components cannot rotate more than 20 within the determined cavity, see sketch.
3. Front blank taping length 550mm Max.

Reel Packing



Carton



Packing Quantity Information:

Quantity	PCS per Reel	PCS per Inner Box	PCS per Carton
TR70 Tape & Reel	2,500/Reel	25,000	200,000

Carton Size Information:

Carton Size
385X380X260 (in mm)

Surface Mount Switching Diode

LL4148 LL4448

How to Order

LL4148 – XX – TR70

Packing Code
TR70: 7" Tape & Reel, RoHS

Factory Location Code

Surface Mount Switching Diode

How to contact us

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