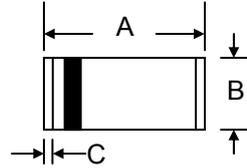


Features

- Silicon Epitaxial Planar Die Construction
- Glass Package Version for High Reliability
- Fast Switching Speed
- High Conductance
- For General Purpose Switching Applications



Mechanical Data

- Case: MiniMELF, Molded Glass
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.03 grams
- Marking: Cathode Band Only
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**

MiniMELF		
Dim	Min	Max
A	3.30	3.70
B	1.30	1.60
C	0.28	0.50
All Dimensions in mm		

Maximum Ratings @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V_{RSM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	75	V
Repetitive Peak Forward Current	I_{FRM}	500	mA
Forward Continuous Current	I_F	300	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	2.0 1.0	A
		@ $t = 1.0\mu\text{s}$ @ $t = 1.0\text{s}$	
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175	$^{\circ}\text{C}$

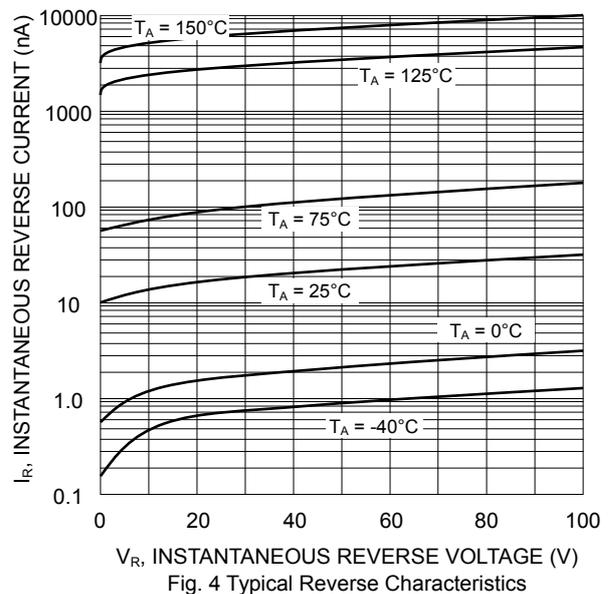
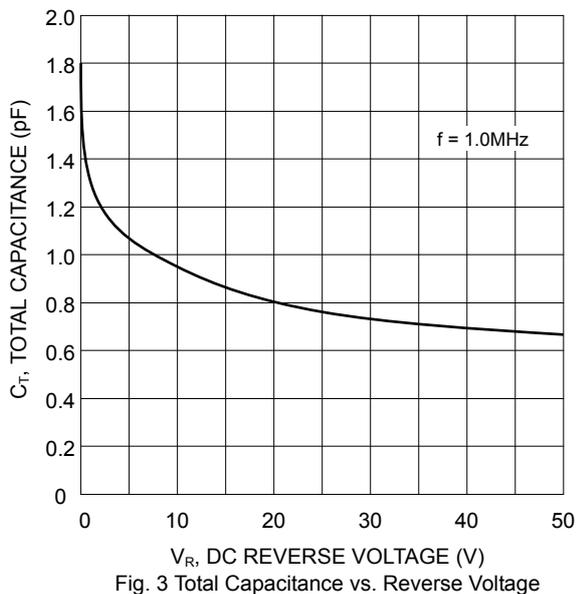
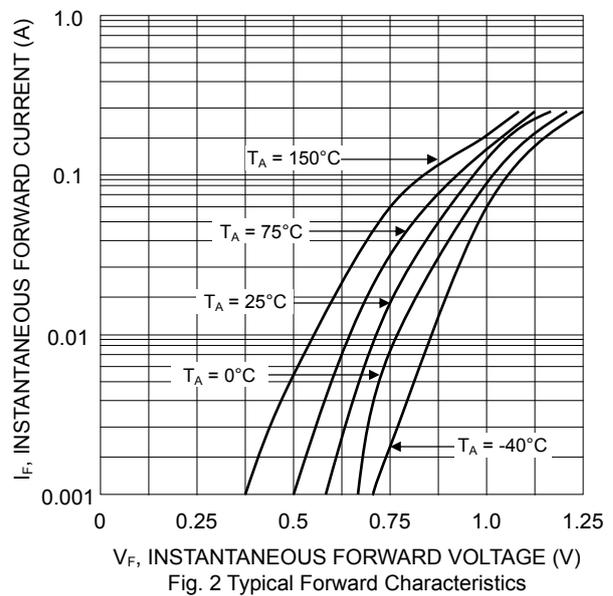
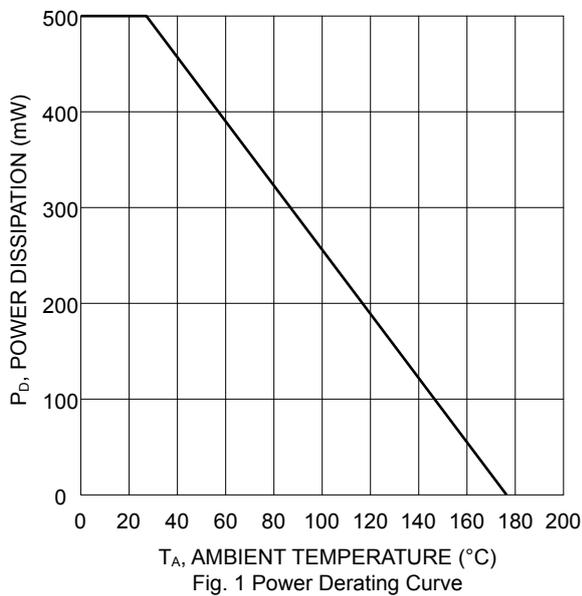
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	P_D	500	mW
Thermal Resistance, Junction to Ambient (Note 1)	R_{JA}	300	$^{\circ}\text{C}/\text{W}$

Note: 1. Diode on ceramic substrate 10 x 8.0 x 0.7mm.

Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage @ $I_R = 100\mu\text{A}$	$V_{(BR)}$	100			V
Forward Voltage Drop @ $I_F = 10\text{mA}$ @ $I_F = 100\text{mA}$	V_{FM}			1.0 1.2	V
Peak Reverse Leakage Current @ $V_R = 20\text{V}$ @ $V_R = 75\text{V}$	I_{RM}			25 5.0	nA μA
Diode Capacitance ($V_R = 0\text{V}$, $f = 1.0\text{MHz}$)	C_D			4.0	pF
Reverse Recovery Time ($I_F=10\text{mA}$, $V_R=6.0\text{V}$, $I_{RR}=1.0\text{mA}$, $R_L=100\Omega$)	t_{rr}			4.0	nS

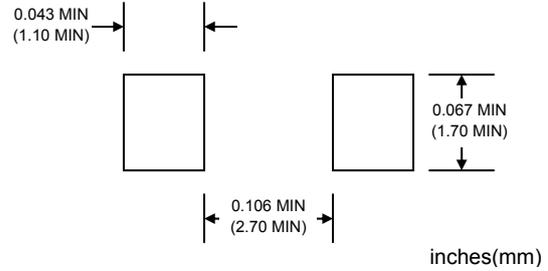


MARKING INFORMATION



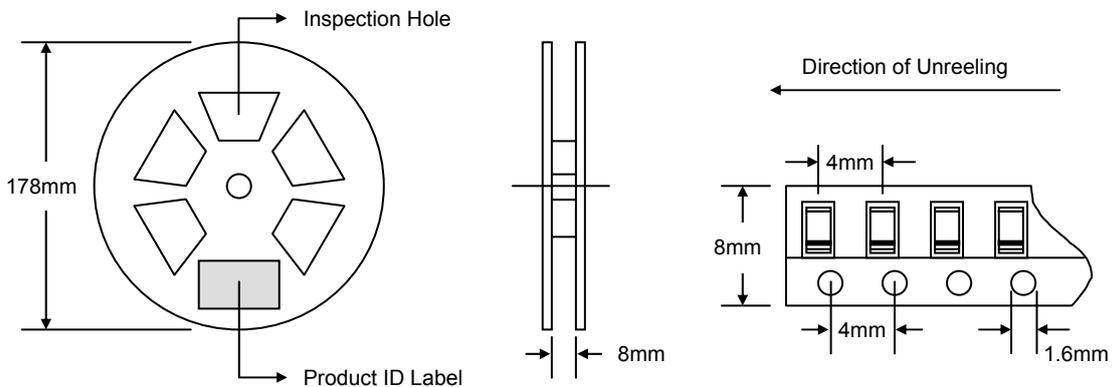
Cathode Band Only

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

TAPE & REEL



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	2,500	185 x 120 x 185	25,000	400 x 273 x 415	200,000	13.5

Note: 1. Anti-static plastic reel, white or water clear or blue color. Inspection hole might be varied in different alignment.
2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
LL4148-T1	MiniMELF	2500/Tape & Reel

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, LL4148-T1-LF.**

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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