

MINI MELF Glass-Encapsulate Diodes

Small Signal Fast Switching Diodes

Features

- V_R 50-200V
- I_F 250mA

Applications

- Extreme fast switches

MINI MELF(SOD-80/ LL- 34)



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	BAV			
				100	101	102	103
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	150	200
Repetitive Peak Reverse Voltage	V_R	V		60	120	200	250
Forward current	I_F	mA	60Hz Half-sine wave, Resistance load, $T_a=25^\circ\text{C}$	250			
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave,1 cycle, $T_a=25^\circ\text{C}$	1			
Junction Temperature	T_J	$^\circ\text{C}$		-55~+175			
Storage Temperature	T_{STG}	$^\circ\text{C}$		-55 ~ +175			
Power Dissipation	P_{tot}	mW		400			

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=1.00\text{ mA}$ $I_{FM}=2.00\text{ mA}$	1.00 1.25
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_R$ $T_a=25^\circ\text{C}$	0.1
Reverse recovery time	t_{rr}	ns	$I_F=30\text{mA}$ to $I_R=30\text{mA}$, $I_{rr}=3\text{mA}$, $R_L=100\Omega$	50
Diode capacitance	C_d	pF	$V_R=0$, $f=1\text{MHz}$	5

Figure 1. Reverse Current vs. Junction Temperature

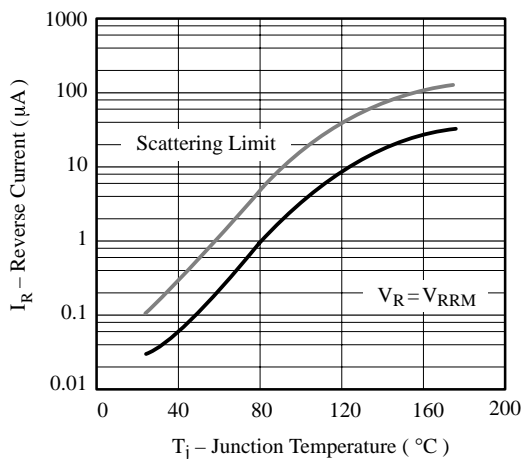


Figure 2. Forward Current vs. Forward Voltage

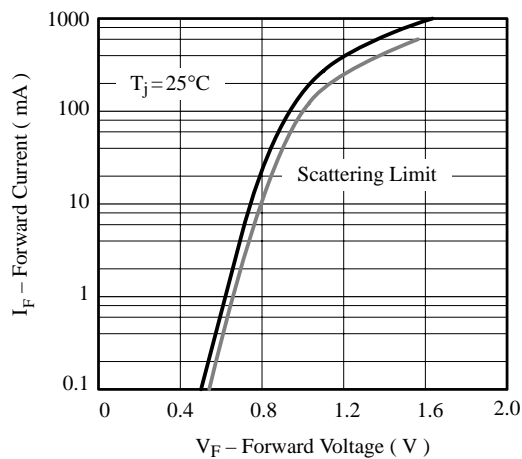
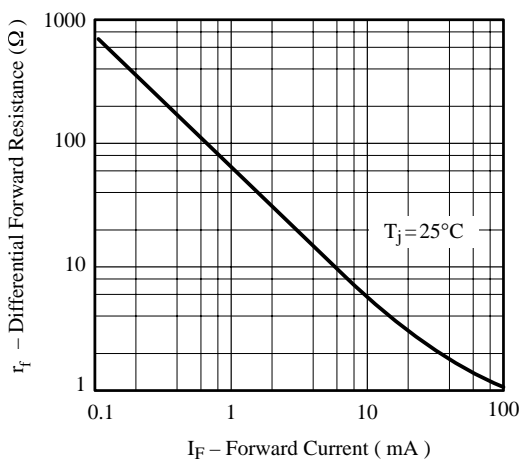
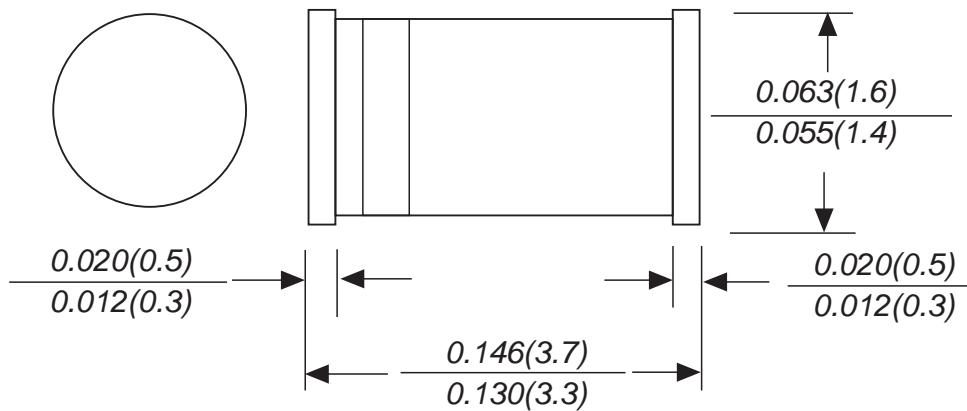


Figure 3. Differential Forward Resistance vs. Forward Current

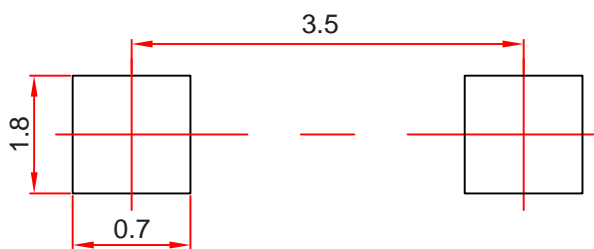


MINI MELF Package Outline Dimensions



Dimensions in millimeters

MINI MELF Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

NOTICE

JSHD reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. JSHD does not assume any liability arising out of the application or use of any product described herein.

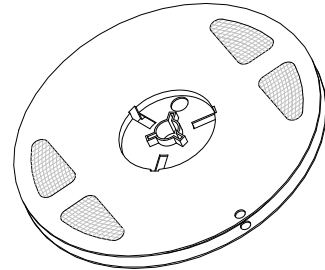
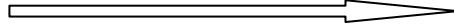
Packaging Specifications for Surface Mounted Glass Diodes

1. The method of packaging and dimension are shown as below figure. (Dimension in mm)

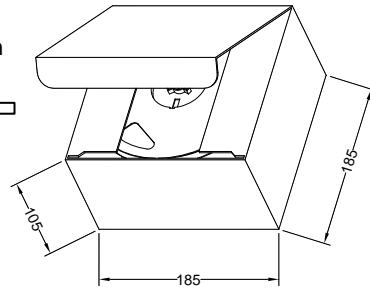
LS-31 (MicroMELF)
LS-34 (QuadroMELF)
LL-34 (MiniMELF)
DO-213AA(MiniMELF)



2,500 pcs per reel



20,000 pcs per box
8 reels per box



100,000 pcs per carton
5 boxes per carton

