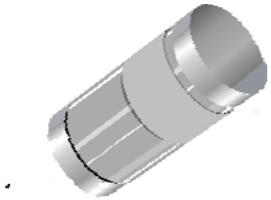
Two Terminals Schottky Barrier Diodes

Features

- Low capacitance
- Low leakage current
- Integrated protection ring against static discharge
- For general purpose applications
- The LL103 series is a metal-on-silicon schottky barrier device which is protected by a PN junction guard ring
- The low forward voltage drop and fast switching make it ideal for protected of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications
- RoHS compliant



MiniMELF

RoHS Compliant

Applications

- HF-Detector
- Protection Circuit
- Small Battery Charger
- Power Supplies
- DC/DC Converter for Notebooks
- Diode for Low Currents Wits a Low Supply Voltage

Mechanical Data

Case:	MiniMELF, Glass Case
Terminals:	Solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes the cathode end
Weight:	0.031 grams

Maximum Ratings *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbol	Description	LL103A	LL103B	LL103C	Unit	Conditions
V_{RRM}	Peak Repetitive Reverse Voltage	40	30	20	V	
V_{RRS}	RMS Reverse Voltage	28	21	14	V	
P_D	Power Dissipation Derate above 25°C	400			mW	
$I_{F(AV)}$	Max. Average Rectified Current	350			mA	
I_{FSM}	Peak Forward Surge Current	15			A	t ≤ 0.3ms
R_{thJA}	Typical Thermal Resistance	250			°C /W	
T_J	Junction Temperature	125			°C	
T_{STG}	Storage Temperature Range	-65 to +175			°C	

Electrical Characteristics *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbol	Description	LL103A	LL103B	LL103C	Unit	Conditions
V_F	Max. Forward Voltage	0.37			V	I_F=20mA
		0.70				I_F=200mA
I_R	Max. Reverse Current	5	-	-	uA	V_R=30V
		-	5	-		V_R=20V
		-	-	5		V_R=10V
C_J	Typical Junction Temperature	50			pF	V_R=0V, f=1MHz

Typical Characteristics Curves

Fig.1- Typical I_F vs. V_F

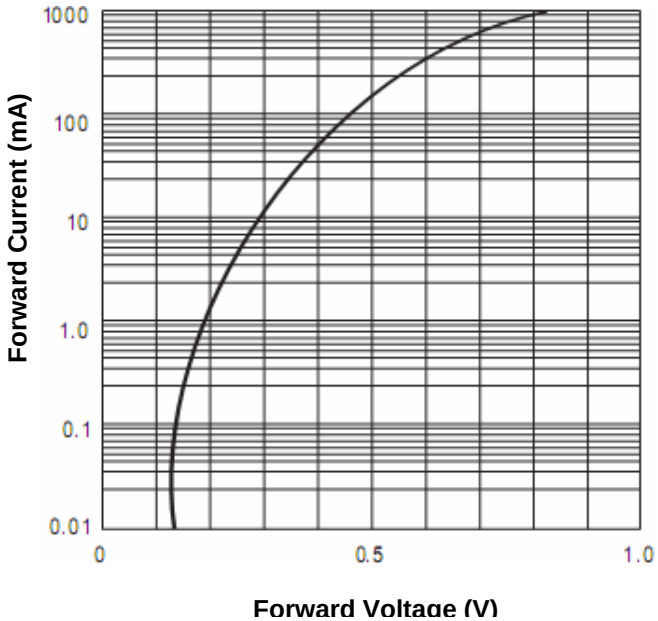


Fig.2- Typical P_D vs. Ta

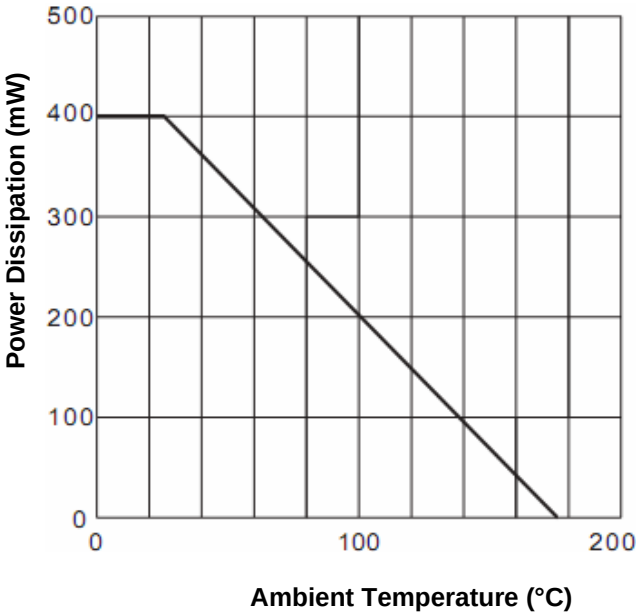
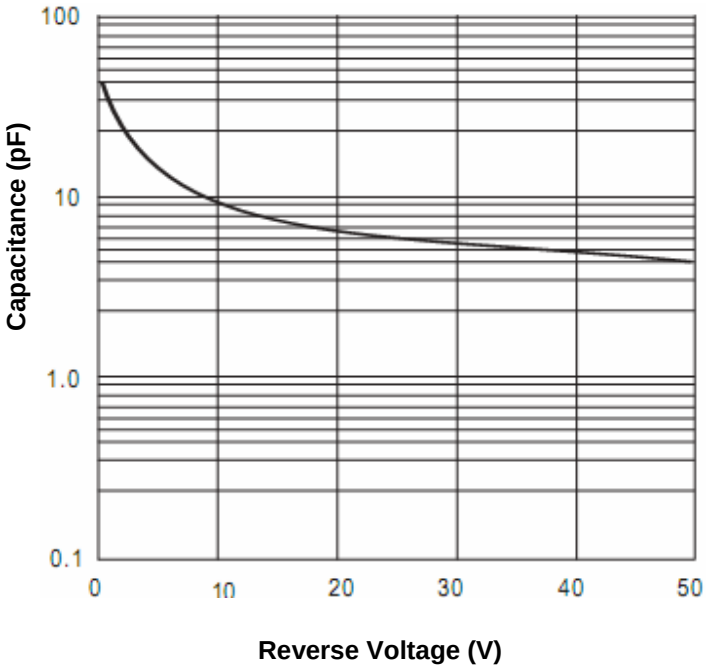
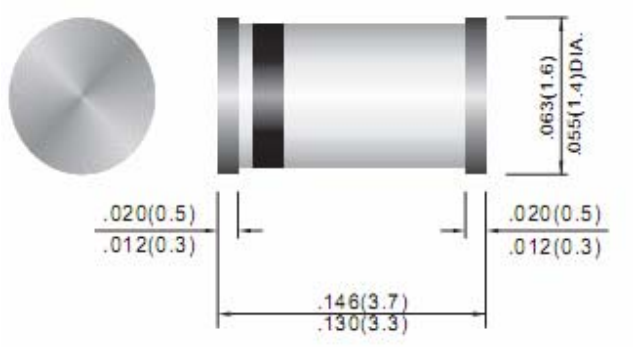


Fig.3- Typical C_J vs. V_F

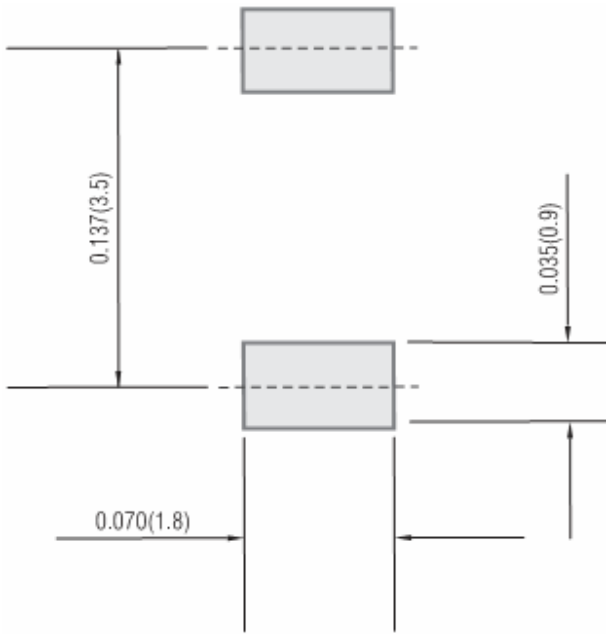


Dimensions in inch (mm)



MiniMELF

Mounting Pad Layout in inch (mm)



Packing Information

Tape and Reel --- 2.5K per 7” Plastic Reel

10K per 13” Plastic Reel

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