WEITRON

LL103A/B/C

Schottky Barrier Diodes

Lead(Pb)-Free

Schottky Barrier Diode
350 mAMPERES
20-40 VOLTS

Features:

* Small surface mounting type
* High reliability
* Low reverse current and low forward voltage
* Low current rectification and high speed switching

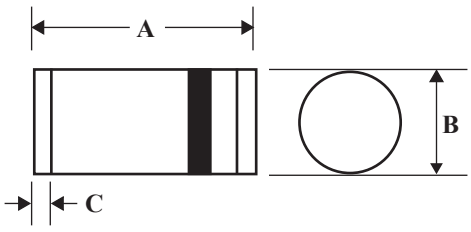
MINI-MELF

Mechanical Data:

*Case : MINI-MELF Glass Case (SOD-80)
*Polarity: Color Band Denotescathode Band
*Weight : Approx 0.05 gram

MINI-MELF Outline Dimensions

Unit:mm



MINI MELF		
Dim	**Min**	**Max**
A	3.30	3.70
B	1.30	1.60
C	0.28	0.50

Maximum Ratings (T_A=25°C Unless otherwise noted)

Characteristic	Symbol	LL103A	LL103B	LL103C	Unit
Pepetitive Peak Reverse Voltage	V_{RRM}	40	30	20	V
Repetitive peak forward current $t_p \leq 1s$	I_{FSM}	1.0			A
Forward Continuous Current, T_A=25 °C	I_F	350			mA
Power dissipation,T_A=25°C	P_D	400			mW
Junction ambient On PC board 50mm×50mm×1.6mm	$R_{\theta JA}$	250			K/W
Operating Temperature Range	T_J	+175			°C
Strorage Temperature Range	T_{STG}	-65 to +175			°C

Electrical Characteristics (T_A=25°C Unless otherwise noted)

Characteristic	Symbol	Min	Tpy	Max	Unit
Forward Voltage I_F = 20mA I_F = 200mA	VF	- -	- -	0.37 0.6	V
Rverse Current V_R=30V LL103A V_R=20V LL103B V_R=10V LL103C	IR	- - -	- - -	5.0 5.0 5.0	μA
Diode capacitance VR=VF=0, f=1MHz	C_D	-	50	-	PF
Reverse Recovery Time IF= IR=200mA to 0.1mA IR	T_{rr}	-	10	-	nS

Typical Characteristics (T_A = 25 °C unless otherwise specified)

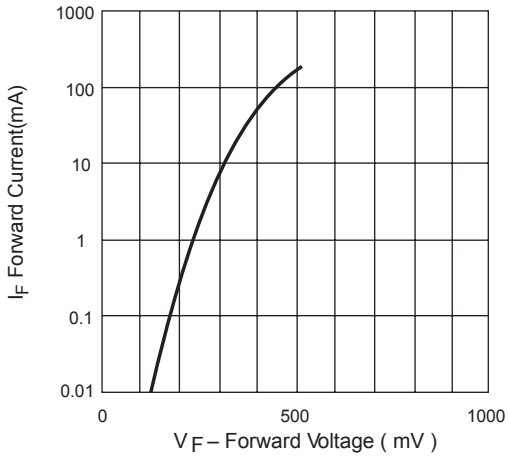


Fig. 1 Forward Current vs. Forward Voltage

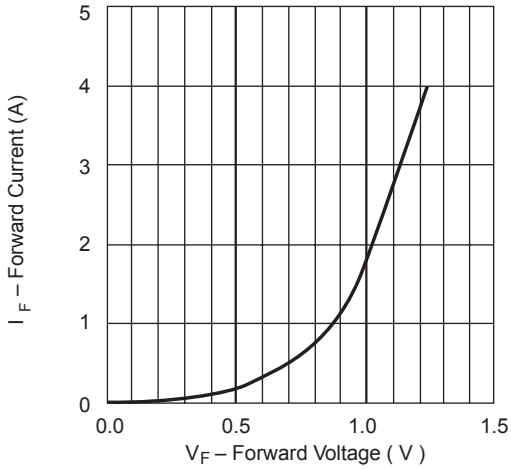


Fig. 2 Forward Current vs. Forward Voltage

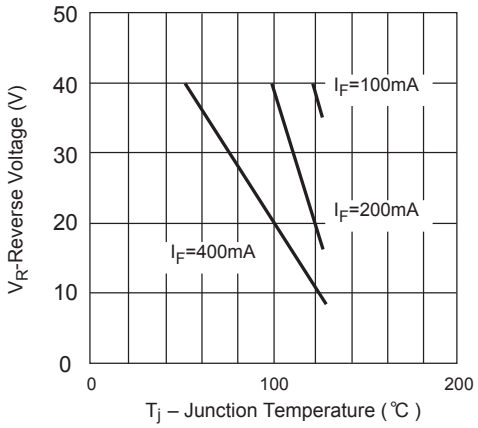


Fig. 3 Reverse Voltage vs. Junction Temperature

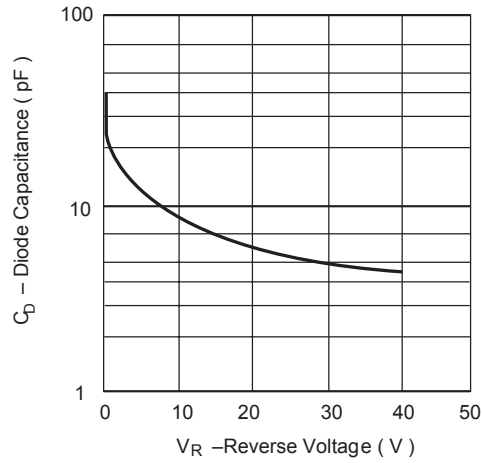


Fig. 4 Diode Capacitance vs. Reverse Voltage

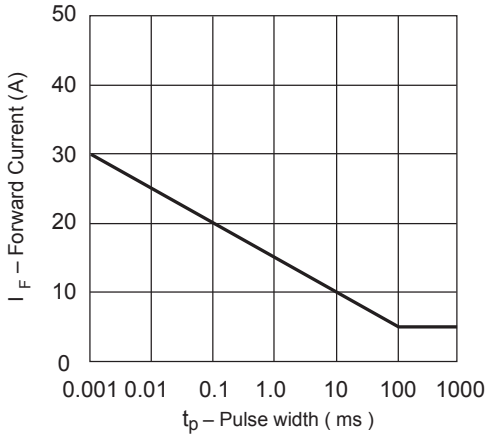


Fig. 5 Forward Current vs. Pulse width

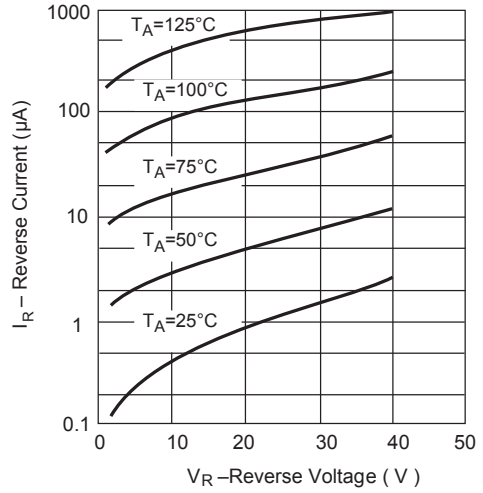


Fig. 6 Reverse Current vs. Reverse Voltage