

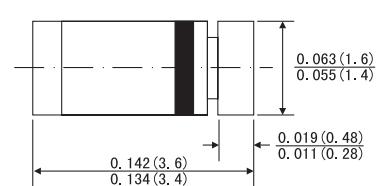
FEATURES

- For general purpose applications
- The LL101 series is a Metal-on-silicon junction Schottky barrier device which is protected by a PN junction guard ring. The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing, and coupling diodes for fast switching and low logic level applications
- These diodes are also available in the DO-35 case with the type designation SD101A to SD101C ,in the SOD-123 case type with the type designation SD101AW to SD101CW and in the SOD-323 case type with the type designation SD101AWS to SD101CWS,in the Micro-MELF case with type designation MCL101 to MCL103

MECHANICAL DATA

- Case: Mini-MELF glass case(SOD-80)
- Weight: Approx. 0.05 gram

Mini-MELF



Dimensions in inches and (millimeters)

ABSOLUTE RATINGS(LIMITING VALUES)

		Symbols	Value	Units
Peak Reverse Voltage	LL101A LL101B LL101C	V _{RRM} V _{RRM} V _{RRM}	60 50 40	V
Power Dissipation (infinite Heat Sink)		P _{tot}	400 ¹⁾	mW
Maximum Single cycle surge 10μs square wave		I _{FSM}	2.0	A
Junction temperature		T _J	125	°C
Storage Temperature Range		T _{STG}	-55 to +150	°C

1) Valid provided that electrodes are kept at ambient temperature

ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

		Symbols	Min.	Typ.	Max.	Unis
Reverse breakdown voltage at I _R =10μA	LL101A LL101B LL101C	V _{RRM} V _{RRM} V _{RRM}	60 50 40			V V V
Leakage current at V _R =50V V _R =40V V _R =30V	LL101A LL101B LL101C	I _R I _R I _R			200 200 200	nA nA nA
Forward voltage drop at I _F =1mA I _F =15mA	LL101A LL101B LL101C LL101A LL101B LL101C	V _F V _F V _F V _F V _F V _F			0.41 0.4 0.39 1 0.95 0.9	V V V V V V
Junction Capacitance at V _R =0V ,f=1MHz	LL101A LL101B LL101C	C _J C _J C _J			2.0 2.1 2.2	pF pF pF
Reverse Recovery time at I _F =I _R =5mA,recover to 0.1 I _R		t _{rr}			1	ns

RATINGS AND CHARACTERISTIC CURVES LL101A THRU LL101C

Figure 1. Typical variation of forward current vs.fwd. Voltage for primary conduction through the schottky barrier

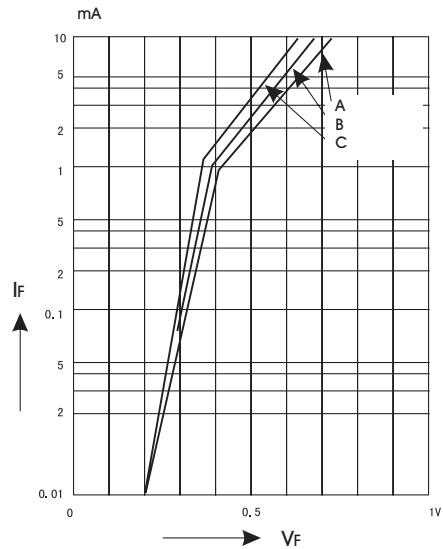


Figure 3.Typical variation of reverse current at versus temperature

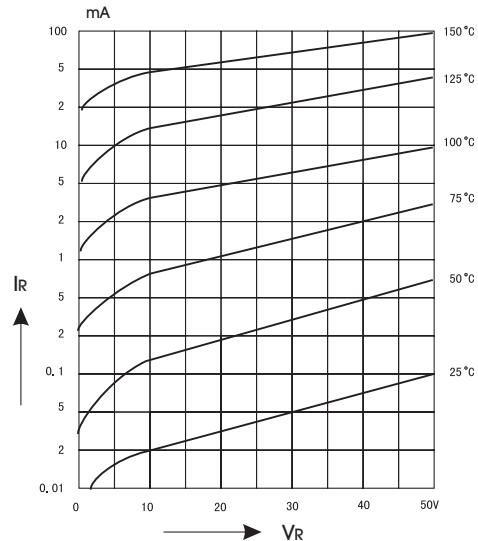


Figure 2. Typical forward conduction curve of combination Schottky barrier and PN junction guard ring

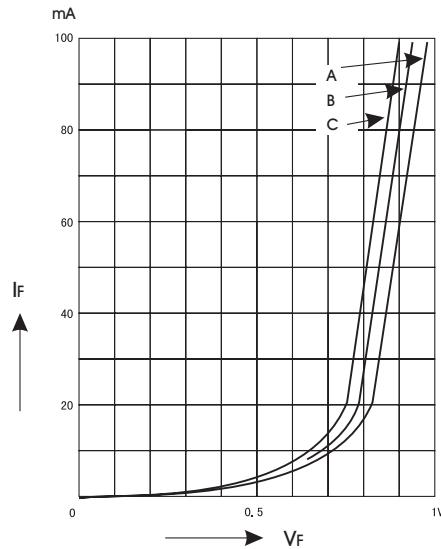


Figure 4. Typical capacitance curve as a function of reverse voltage

