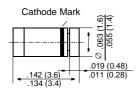
LL103A THRU LL103C

Schottky Diodes

MiniMELE



Dimensions in inches and (millimeters)

FEATURES

- For general purpose applications.
- The LL103A, B, C 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 protection of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications. Other applications are click suppression, efficient full wave bridges in telephone subsets, and blocking diodes in rechargeable low voltage battery systems.
- This diode is also available in DO-35 case with the type designation SD103A, B, C, and in the SOD-123 case with type designation SD103AW, SD103BW, SD103CW.

MECHANICAL DATA

Case: MiniMELF Glass Case SOD-80C **Weight:** approx. 0.05 g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

		Symbol	Value	Unit
Peak Inverse Voltage	LL103A LL103B LL103C	V _{RRM} V _{RRM} V _{RRM}	40 30 20	V V V
Power Dissipation (Infinite Heats T _C = ³ /8″ from Body derates at 4 mW/°C to 0 at 125 °		P _{tot}	4001)	mW
Junction Temperature		Tj	125	°C
Storage Temperature Range		T _S	-55 to +150	°C
Single Cycle Surge 60-Hz Sine Wave		IFSM	15	A



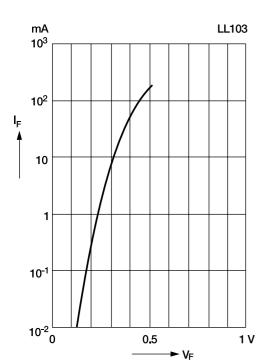
LL103A THRU LL103C

ELECTRICAL CHARACTERISTICS

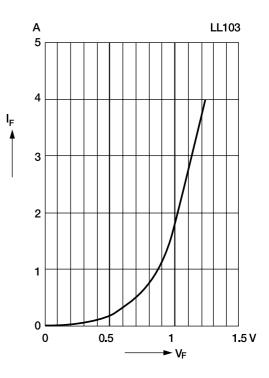
Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Min.	Тур.	Max.	Unit
Leakage Currentat $V_R = 30 V$ LL103Aat $V_R = 20 V$ LL103Bat $V_R = 10 V$ LL103C	I _R I _R			5 5 5	μΑ μΑ μΑ
Forward Voltage Drop at $I_F = 20 \text{ mA}$ at $I_F = 200 \text{ mA}$	V _F V _F			0.37 0.6	V V
Junction Capacitance at V _R = 0 V, f = 1 MHz	C _{tot}	_	50	_	pF
Reverse Recovery Time at $I_F = I_R = 50$ mA to 200 mA, recover to 0.1 I_R	t _{rr}	_	10	_	ns

RATINGS AND CHARACTERISTIC CURVES LL103A THRU LL103C

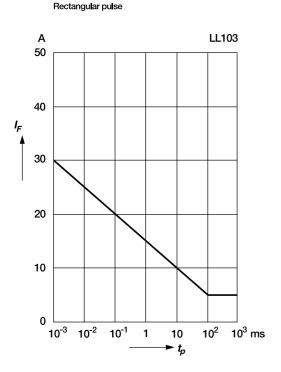


Typical variation of fwd. current vs. fwd. voltage for primary conduction through the Schottky barrier Typical high current forward conduction curve t_p =300 ms, duty cycle =2%





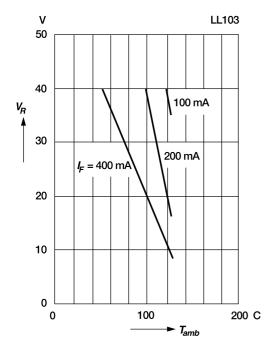
RATINGS AND CHARACTERISTIC CURVES LL103A THRU LL103C



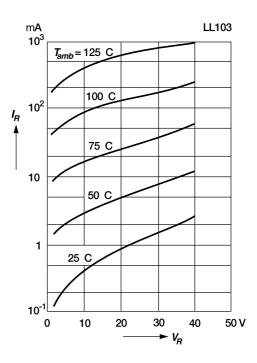
Typical non repetitive forward surge

current versus pulse width

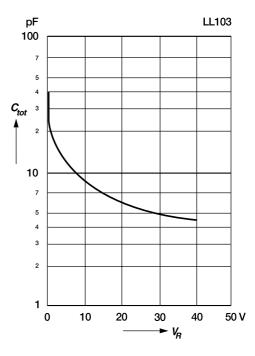
Blocking voltage deration versus temperature at various average forward currents



Typical variation of reverse current at various temperatures



Typical capacitance versus reverse voltage



GENERAL SEMICONDUCTOR®