LL103A THUR LL103C

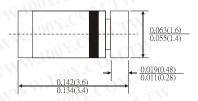
SMALL SIGNAL SCHOTTKY DIODES

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

FEATURES

- · For general purpose applications
- The LL103 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. Other applications are click suppressions, efficient full wave bridges in telephone subsets, and blocking diodes in rechargeable low voltage battery systems.
- These diodes are also available in the DO-35 case with the type designation SD103A to SD103C, in the SOD-123 case with the type designation SD103AW to SD103CWand in the SOD-323 case with typedesignation SD103AWS to SW103CWS, in the Micro-MELF case type with the type designation MCL103A to MCL103C

Mini-MELF



Dimensions in inches and (millimeters)

MECHANICAL DATA

· Case: Mini-MELF glass case(SOD-80)

· Weight: Approx. 0.05 gram

ABSOLUTE RATINGS(LIMITING VALUES)

	OM.	Symbols	Value	Units
Peak Reverse Voltage	LL103A LL103B LL103C	VRRM VRRM VRRM	40 30 20	V V
Power Dissipation (infinite Heat Sink)	COM	Ptot	400 1)	mW
Maximum Single cycle surge 60Hz sine wave	TIN	IFSM	15	Α
Junction temperature	COM	ŢJ	125	°C 🕠
Storage Temperature Range	0. W.I.	Tstg	-55 to+150	°C
1) Valid provided that electrodes are kept	at ambient temperature	Al Wall		

ELECTRICAL CHARACTERISTICS

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

	Symbols	Min.	Тур.	Max.	Units
$ \begin{array}{ccc} \text{Leakage current at V}_{\text{R}=30\text{V}} & & \text{LL103A} \\ \text{$\text{V}_{\text{R}}=20\text{V}$} & & \text{$\text{LL103B}$} \\ \text{$\text{V}_{\text{R}}=10\text{V}$} & & \text{$\text{LL103C}$} \end{array} $	IR IR IR	N	WWW	5 5 5	μΑ μΑ μΑ
Forward voltage drop at I=20mA I=200mA	VF VF	LM	MM	0.37 0.6	V V
Junction Capacitance at V _R =0V ,f=1MHz	Cı	TV	50		pF
Reverse Recovery time at $I_F=I_R=50$ mA, recover to 2 recover to 0.1 I_R	00mA trr	TW	10		ns

RATINGS AND CHARACTERISTIC CURVES LL103A THRU LL103C

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Figure 1. Typical variation of forward current vs. Forward.

Voltage for primary conduction through the schottky barrier

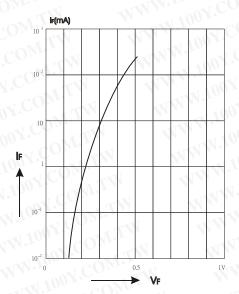


Figure 3. Typical non repetitive forward surge current versus pulse width

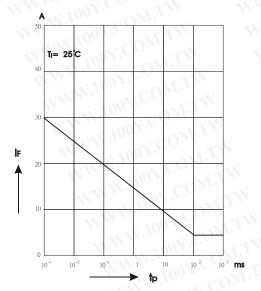


Figure 5. Blocking deration versus temperature at various average forward currents

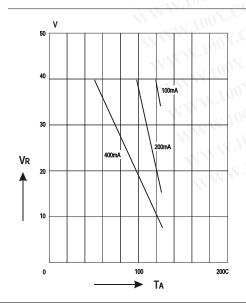


Figure 2. Typical high current forward conduction curve tp=300ms,duty cycle=2%

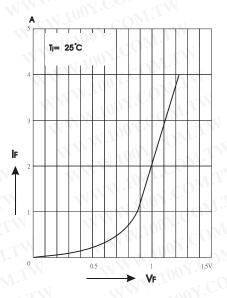


Figure 4. Typical variation of reverse current at various temperatures

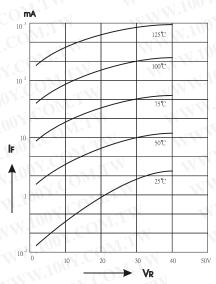
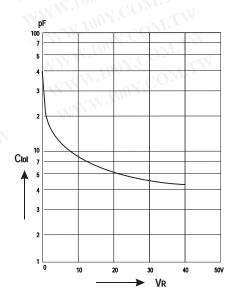


Figure 6. Typical capacitance versus reverse voltage



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