

LL103A THUR LL103C

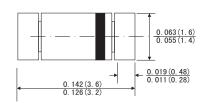
SMALL SIGNAL SCHOTTKY DIODES

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.
- · High temperature soldering guaranteed:260°C/10 seconds at terminals
- · Component in accordance to RoHS 2011/65/EU

MiniMELF





Dimensions in inches and (millimeters)

MECHANICAL DATA

- · Case: MiniMELF glass case(SOD-80)
- · Polarity: Color band denotes cathode end
- · Weight: Approx. 0.05 gram

ABSOLUTE RATINGS(LIMITING VALUES)

LL103A	\/ppu		
LL103B LL103C	Vrrm Vrrm Vrrm	40 30 20	V
	Ptot	400 1)	mW
	IFSM	15	А
	TJ	125	°C
	Tstg	-55 to+150	°C
	LL 103C	VRRM	LL103C VRRM 20 Ptot 400 °) IFSM 15 TJ 125 TSTG -55 to+150

ELECTRICAL CHARACTERISTICS

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

	Symbols	Min.	Тур.	Max.	Unis
Leakage current at VR=30V LL 103A VR=20V LL 103B VR=10V LL 103C	IR IR IR			5 5 5	μΑ μΑ μΑ
Forward voltage drop at Ir=20mA Ir=200mA	VF VF			0.37 0.6	V V
Junction Capacitance at V _R =0V ,f=1MHz	Cl		50		pF
Reverse Recovery time at IF=IR=50mA,recover to 200mA recover to 0.1 IR	trr		10		ns

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RATINGS AND CHARACTERISTIC CURVES LL103A THRU LL103C

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

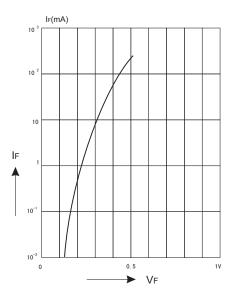
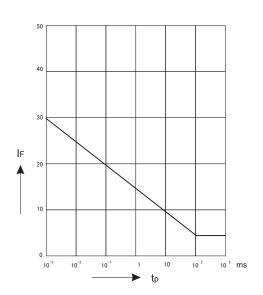


Figure 3. Typical non repetitive forward surge current versus pulse width



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

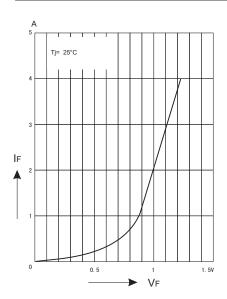
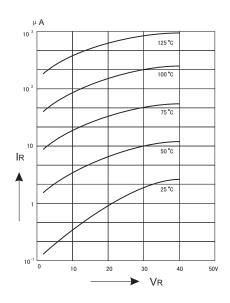


Figure 4. Typical variation of reverse current at various temperatures



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

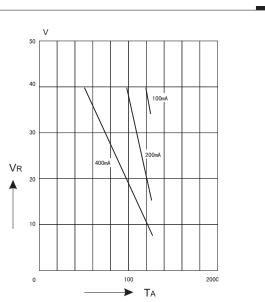
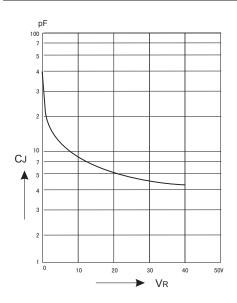


Figure 6. Typical capacitance versus reverse voltage



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