



**INTERNATIONAL
SEMICONDUCTOR, INC.**
SCHOTTKY BARRIER DIODES

VOLTAGE - 20 TO 40 Volts CURRENT - 200 mA

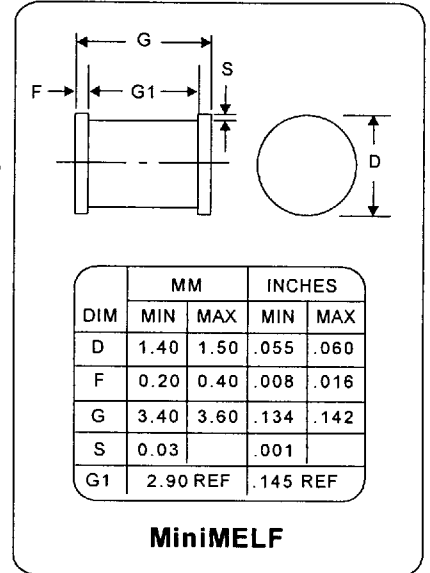
**LL103A
thru
LL103C**

FEATURES

- Surface Mount
- Schottky Barrier Junction
- PN Junction Guard Ring
- High Reliability
- Fast Switching
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- High temperature soldering guaranteed: 250°C/10 seconds at the terminals

MECHANICAL DATA

- Case:** Glass Case MiniMELF
- Terminals:** Solderable per MIL-STD-202, Method 208
- Polarity:** Cathode indicated by colored band
- Mounting Position:** Any
- Weight:** 0.05 grams, 0.0018 oz



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified
Single phase, half wave, 60 Hz, resistive or inductive load
For capacitive load, derate current by 20%

	SYMBOL	LL103A	LL103B	LL103C	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	30	20	V
Maximum RMS Input Voltage	V_{RMS}	28	21	14	V
Maximum DC Blocking Voltage	V_{DC}	40	30	20	V
Maximum Average Forward Current at $T_c=90^\circ\text{C}$	$I_{(AV)}$	200			mA
Maximum Single Cycle Surge Current 10 usec Squarewave	I_{FSM}	15			A
Maximum Forward Voltage Drop at $I_F=200$ mA	V_F	0.60			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^\circ\text{C}$	V_R	40	20	10	V
	I_R	5.0			nA
Typical Junction Capacitance, $T_J=25^\circ\text{C}$ (Note 1)	C_J	80			pf
Reverse Recovery Time (Note 2)	T_{RR}	1.0			nsec
Operating Temperature Range	T_J	-55 to +125			°C
Storage Temperature Range	T_{STG}	-55 to +175			°C

Note 1: Measured at 1.0 MHz and 4.0 Volt Bias Voltage

Note 2: Measured at $I_F = I_R = 5$ mA, Recover to $I_R = 0.1$ mA

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