

MCL103A...MCL103C

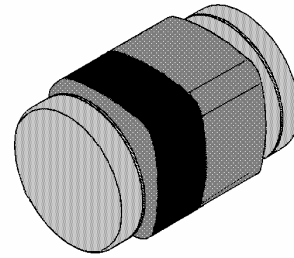
SILICON SCHOTTKY BARRIER DIODES

for general purpose applications

LS-31

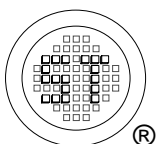
Features

- Fits onto SOD 323 / SOT 23 footprints
- Micro Melf package



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

	Symbol	Value	Unit
Peak Reverse Voltage	MCL103A V_{RRM}	40	V
	MCL103B V_{RRM}	30	V
	MCL103C V_{RRM}	20	V
Power Dissipation(Infinite Heatsink) $T_C = 3/8''$ from body derates at 4 mW/ $^\circ\text{C}$ to 0 at 125 $^\circ\text{C}$	P_{tot}	400	mW
Single Cycle Surge 60Hz sinewave	I_{FSM}	15	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_S	- 55 to + 175	$^\circ\text{C}$



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company
listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 71116



ISO 9001:2000
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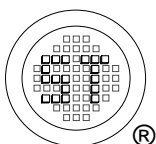
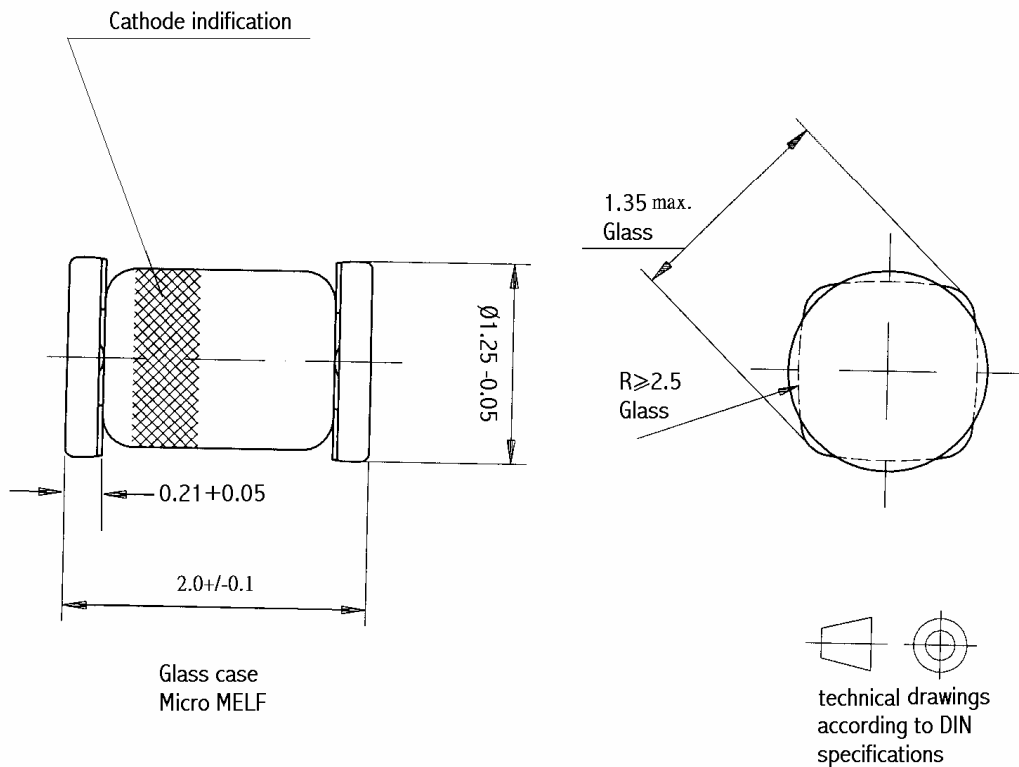
Dated : 20/08/2002

MCL103A...MCL103C

Characteristics at $T_{amb} = 25^{\circ}C$

	Symbol	Min.	Typ.	Max.	Unit
Leakage Current					
at $V_R = 30 V$	MCL103A	I_R	-	-	5 μA
at $V_R = 20 V$	MCL103B	I_R	-	-	5 μA
at $V_R = 10 V$	MCL103C	I_R	-	-	5 μA
Forward Voltage Drop					
at $I_F = 20 mA$		V_F	-	-	0.37 V
at $I_F = 200 mA$		V_F	-	-	0.6 V
Junction Capacitance					
at $V_R = 0 V, f = 1 MHz$		C_{tot}	-	50	- pF
Reverse Recovery Time					
at $I_F = I_R = 5 mA$ to $200mA$, recover to $0.1 I_R$		t_{rr}	-	10	- ns

Dimensions in mm



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