MCL101A...MCL101C

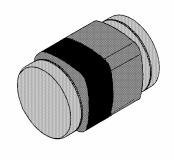
SILICON SCHOTTKY BARRIER DIODES

for general purpose applications

LS-31

Features

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



Absolute Maximum Ratings ($T_a = 25$ °C)

		Symbol	Value	Unit
Peak Reverse Voltage	MCL101A	V _{RRM}	60	V
	MCL101B	V _{RRM}	50	V
	MCL101C	V _{RRM}	40	V
Power Dissipation at $T_{amb} = 25 ^{\circ}C$		P _{tot}	400	mW
Max. Single Cycle Surge 10 s Squarewave		I _{FSM}	2	А
Junction Temperature		Tj	200	°C
Storage Temperature Range		Ts	- 55 to + 200	°C







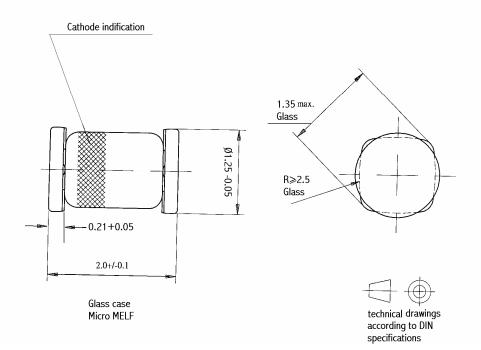
Dated : 20/08/2002

MCL101A...MCL101C

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

		Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage						
at I _R = 10 uA	MCL101A	V _{(BR)R}	60	-	-	V
	MCL101B	V _{(BR)R}	50	-	-	V
	MCL101C	V _{(BR)R}	40	-	-	V
Leakage Current						
at $V_R = 50 V$	MCL101A	I _R	-	-	200	nA
at $V_R = 40 V$	MCL101B	I _R	-	-	200	nA
at $V_R = 30 V$	MCL101C	I _R	-	-	200	nA
Forward Voltage Drop						
at I _F = 1 mA	MCL101A	V _F	-	-	0.41	V
	MCL101B	V _F	-	-	0.4	V
	MCL101C	V _F	-	-	0.39	V
at I _F = 15 mA	MCL101A	V _F	-	-	1	V
	MCL101B	V _F	-	-	0.95	V
	MCL101C	V _F	-	-	0.9	V
Junction Capacitance						
at $V_R = 0 V$, f = 1 MH _Z	MCL101A	C _{tot}	-	-	2	pF
	MCL101B	C _{tot}	-	-	2.1	pF
	MCL101C	C _{tot}	-	-	2.2	pF
Reverse Recovery Time						
at $I_F = I_R = 5$ mA, recover to 0.1 I_R		t _{rr}	-	-	1	ns

Dimensions in mm





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



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