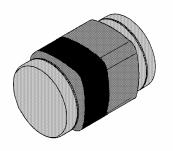
SILICON SCHOTTKY BARRIER DIODES

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 °C		P _{tot}	400	mW
Max. Single Cycle Surge 10 s Squarewave		I _{FSM}	2	А
Junction Temperature		T _j	200	°C
Storage Temperature Range		Ts	- 55 to + 200	°C







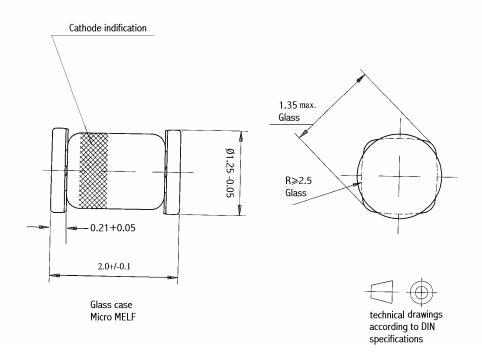


MCL101A...MCL101C

Characteristics at T_{amb} = 25 $^{\circ}$ 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 $V_R = 50 \text{ V}$	MCL101A	I _R	-	-	200	nA
at $V_R = 40 \text{ V}$	MCL101B	I _R	-	-	200	nA
at $V_R = 30 \text{ V}$	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.

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