LL101A...LL101C

SILICON SCHOTTKY BARRIER DIODES

for general purpose applications

The LL101 Series is a metal on silicon 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.

This diode is also available in DO-35 case with type designation

SD101A, B, C.

> Glass case MiniMELF Dimensions in mm

Absolute Maximum Ratings (T_a = 25°C)

		Symbol	Value	Unit			
Peak Reverse Voltage	LL101A	LL101A V _{RRM}		V			
	LL101B	V _{RRM}	50	V			
	LL101C	V _{RRM}	40	V			
Power Dissipation (Infinite Heatsink)		P _{tot}	400 ¹⁾	mW			
Max. Single Cycle Surge		leon	2	Δ			
10μs Squarewave		IFSM	2	~			
Junction Temperature		Tj	200	°C			
Storage Temperature Range		Ts	-55 to +200	°C			
¹⁾ Valid provided that electrodes are kept at ambient temperature.							







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LL101A...LL101C

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

		Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage						
at $I_R = 10\mu A$	LL101A	V _{(BR)R}	60	-	-	V
	LL101B	V _{(BR)R}	50	-	-	V
	LL101C	$V_{(BR)R}$	40	-	-	V
Forward Voltage Drop						
at I _F = 1mA	LL101A	V-	_	_	0.41	V
	LL101B	V _E	-	-	0.4	V
	LL101C	VF	-	-	0.39	V
at I _F = 15mA	LL101A	VF	-	-	1	V
	LL101B	V _F	-	-	0.95	V
	LL101C	V _F	-	-	0.9	V
Leakage Current						
at $V_R = 50V$	LL101A	I _R	-	-	200	nA
at $V_R = 40V$	LL101B	I _R	-	-	200	nA
at $V_R = 30V$	LL101C	I _R	-	-	200	nA
Junction Capacitance						
at $V_R = 0V$, f = 1MHz	LL101A	C_{tot}	-	-	2.0	pF
	LL101B	\mathbf{C}_{tot}	-	-	2.1	pF
	LL101C	C _{tot}	-	-	2.2	pF
Reverse Recovery Time		t	_	_	1	ns
at $I_F = I_R = 5mA$, recover to 0.1 I_R		۲r	-	-		115







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