LL101A ... LL101C

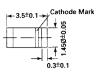
Silicon Schottky Barrier Diode

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.

These diodes are delivered taped. Details see "Taping".



Glass case MiniMELF

Weight approx. 0.05g Dimensions in mm

Absolute Maximum Ratings (T_a = 25 °C)

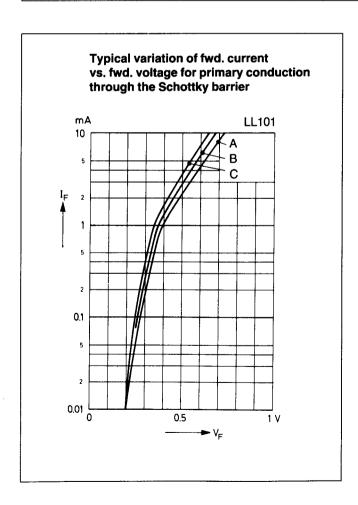
		Symbol	Value	Unit
Peak Reverse Voltage	LL101A LL101B LL101C	V _{RRM} V _{RRM} V _{RRM}	60 50 40	V V V
Power Dissipation (Infinite Heatsink)		P _{tot}	400 ¹⁾	mW
Max. Single Cycle Surge 10 μs Squarewave		I _{FSM}	2	А
Junction Temperature		T _i	200	°C
Storage Temperature Range		T _s	-55 to + 200	°C

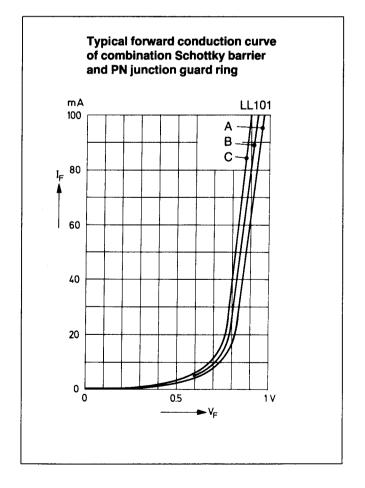


LL101A ... LL101C

Characteristics at T_{amb} =25 °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
Leakage Current						
at $V_B = 50 \text{ V}$	LL101A	l _B	-	-	200	nA
at $V_B = 40 \text{ V}$	LL101B	I _R	-	-	200	nA
at $V_R = 30 \text{ V}$	LL101C	I _R	-	-	200	nA
Forward Voltage Drop						
at I _F = 1 mA	LL101A	V _F	-	-	0.41	V
	LL101B	V _F	-	-	0.4	V
	LL101C	V _F V _F V _F	-	-	0.39	V
at I _F = 15 mA	LL101A	V _F	-	-	1	V
	LL101B	V _F	-	-	0.95	V
	LL101C	V _F	-	-	0.9	V
Junction Capacitance						
at $V_R = 0 V$, $f = 1 MHz$	LL101A	C _{tot}	-	-	2.0	pF
	LL101B	C _{tot}	-		2.1	рF
	LL101C	C _{tot} C _{tot} C _{tot}	-	-	2.2	pF
Reverse Recovery Time		t _{rr}	-	-	1	ns
at $I_F = I_R = 5$ mA, recover to 0.1 I_R						







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