

SD101A (1N6263)...SD101C

SILICON SCHOTTKY BARRIER DIODES

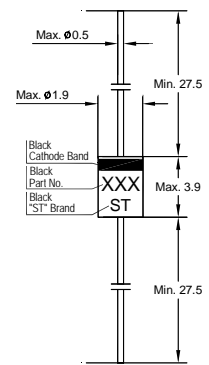
for general purpose applications

The SD101 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.

The SD101A is equivalent to the 1N6263.

This diode is also available in MiniMELF case with type designation LL101A, B, C.



Glass Case DO-35
Dimensions in mm

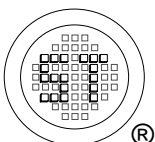
Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit	
Peak Reverse Voltage	SD101A SD101B SD101C	V_{RRM}	60 50 40	V
Power Dissipation	P_{tot}	400 ¹⁾	mW	
Maximum Single Cycle Surge, 10 s Square wave	I_{FSM}	2	A	
Junction Temperature	T_j	200	$^\circ\text{C}$	
Storage Temperature Range	T_s	- 55 to + 200	$^\circ\text{C}$	

¹⁾ Valid provided the leads direct at the case are kept at ambient temperature.

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit	
Reverse Breakdown Voltage at $I_R = 10\text{ }\mu\text{A}$	SD101A SD101B SD101C	$V_{(BR)R}$	60 50 40	- - -	V
Forward Voltage at $I_F = 1\text{ mA}$	SD101A SD101B SD101C	V_F	- - -	0.41 0.4 0.39	V
at $I_F = 15\text{ mA}$	SD101A SD101B SD101C	V_F	- - -	1 0.95 0.9	V
Reverse Leakage Current at $V_R = 50\text{ V}$ at $V_R = 40\text{ V}$ at $V_R = 30\text{ V}$	SD101A SD101B SD101C	I_R	- - -	200	nA
Junction Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$	SD101A SD101B SD101C	C_{tot}	- - -	2 2.1 2.2	pF
Reverse Recovery Time at $I_F = I_R = 5\text{ mA}$, recover to $0.1 I_R$	t_{rr}	-	1	ns	



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ISO/TS 16949 : 2002
Certificate No. 05103



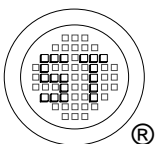
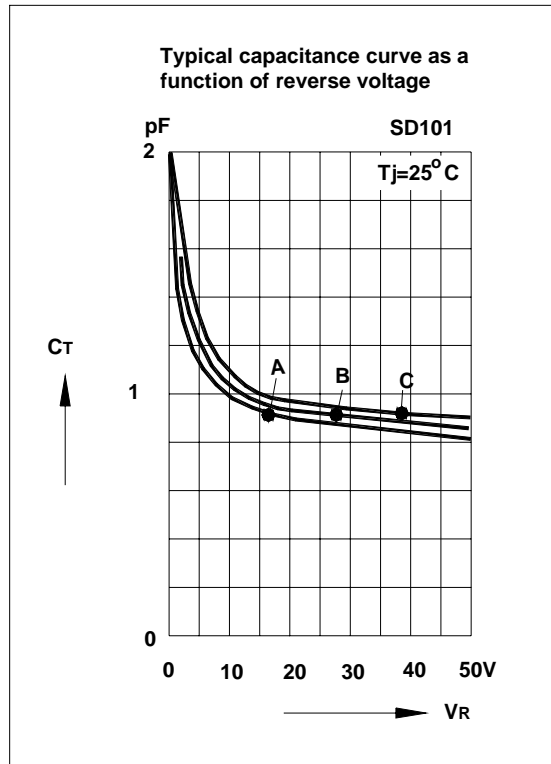
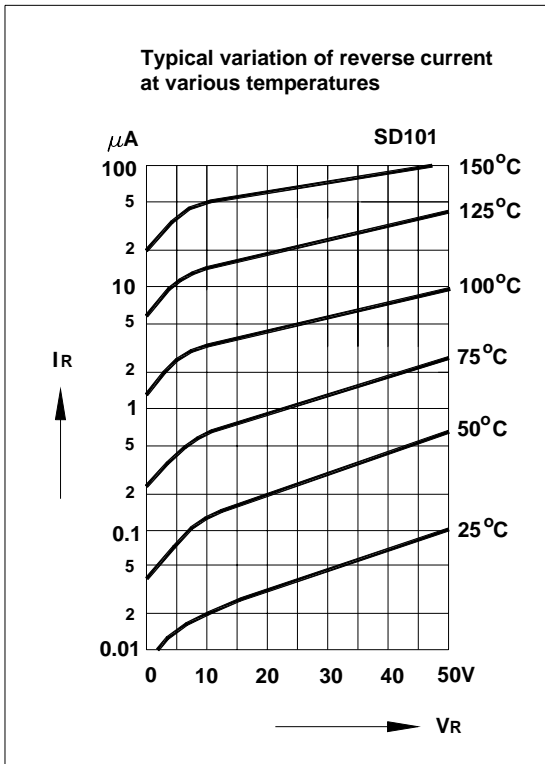
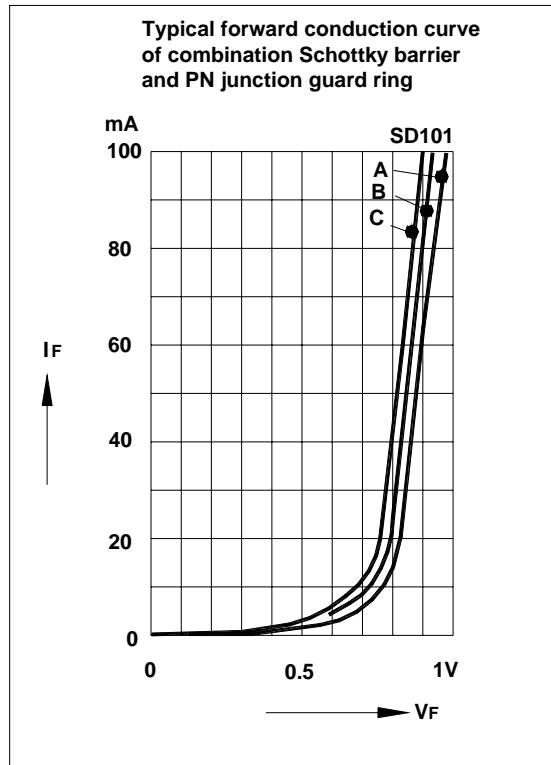
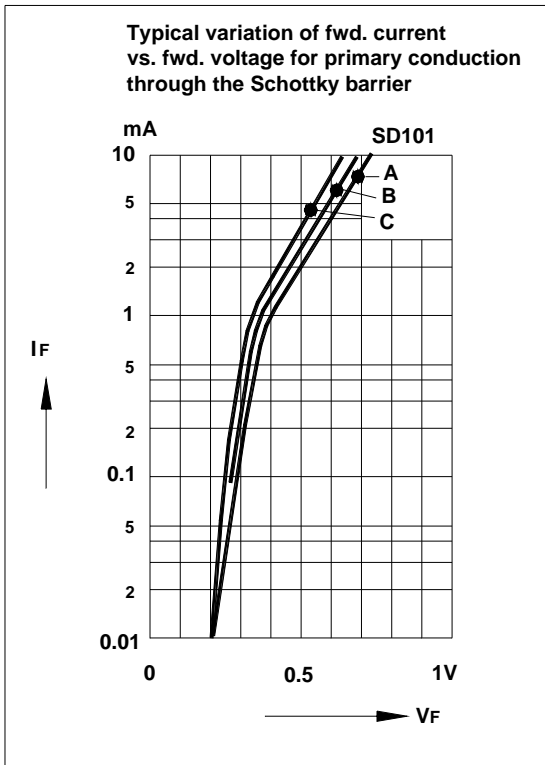
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Dated : 23/06/2007

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