

SD101A (1N6263)...SD101C

SILICON SCHOTTKY BARRIER DIODES for general purpose applications

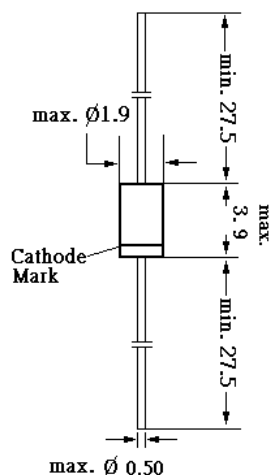
The SD101 Series is a metal on silicon Schottky barrier device which is protected by a PN junction guard ring. The low forward voltage drop and fast switching make it ideal for protection of MOS devices, steering, biasing and coupling diodes for fast switching and low logic level applications.

The SD101A is equivalent to the 1N6263.

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

These diodes are delivered taped.

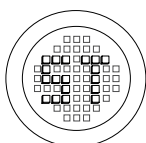
Details see "Taping".



Glass case JEDEC DO-35
Dimensions in mm

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

		Symbol	Value	Unit
Peak Reverse Voltage	SD101A	V_{RRM}	60	V
	SD101B	V_{RRM}	50	V
	SD101C	V_{RRM}	40	V
Power Dissipation		P_{tot}	400 ¹⁾	mW
Max. 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.				



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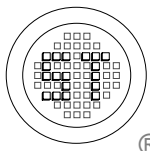
РАДИОТЕХ

Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

SD101A (1N6263)...SD101C

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

		Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 10\mu\text{A}$	SD101A	$V_{(BR)R}$	60	-	-	V
	SD101B	$V_{(BR)R}$	50	-	-	V
	SD101C	$V_{(BR)R}$	40	-	-	V
Forward Voltage Drop at $I_F = 1\text{mA}$ at $I_F = 15\text{mA}$	SD101A	V_F	-	-	0.41	V
	SD101B	V_F	-	-	0.4	V
	SD101C	V_F	-	-	0.39	V
	SD101A	V_F	-	-	1	V
	SD101B	V_F	-	-	0.95	V
	SD101C	V_F	-	-	0.9	V
Leakage Current at $V_R = 50\text{V}$ at $V_R = 40\text{V}$ at $V_R = 30\text{V}$	SD101A	I_R	-	-	200	nA
	SD101B	I_R	-	-	200	nA
	SD101C	I_R	-	-	200	nA
Junction Capacitance at $V_R = 0\text{V}$, $f = 1\text{MHz}$	SD101A	C_{tot}	-	-	2 ¹⁾	pF
	SD101B	C_{tot}	-	-	2.1	pF
	SD101C	C_{tot}	-	-	2.2	pF
Reverse Recovery Time at $I_F = I_R = 5\text{mA}$, recover to $0.1 I_R$		t_{rr}	-	-	1	ns
¹⁾ JEDEC limit specification on capacitance for 1N6263 is 2.2 pF						



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ISO/TS 16949 : 2002
Certificate No. 05103



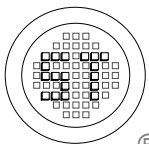
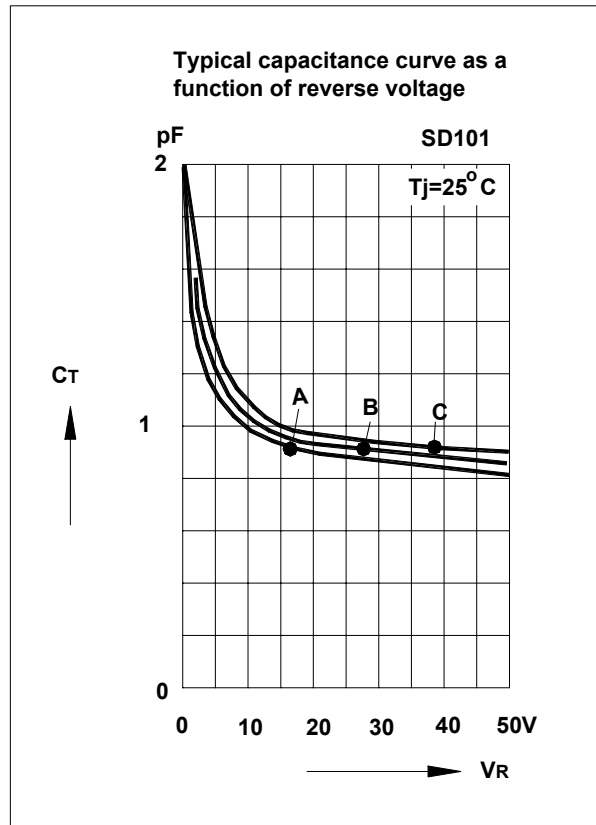
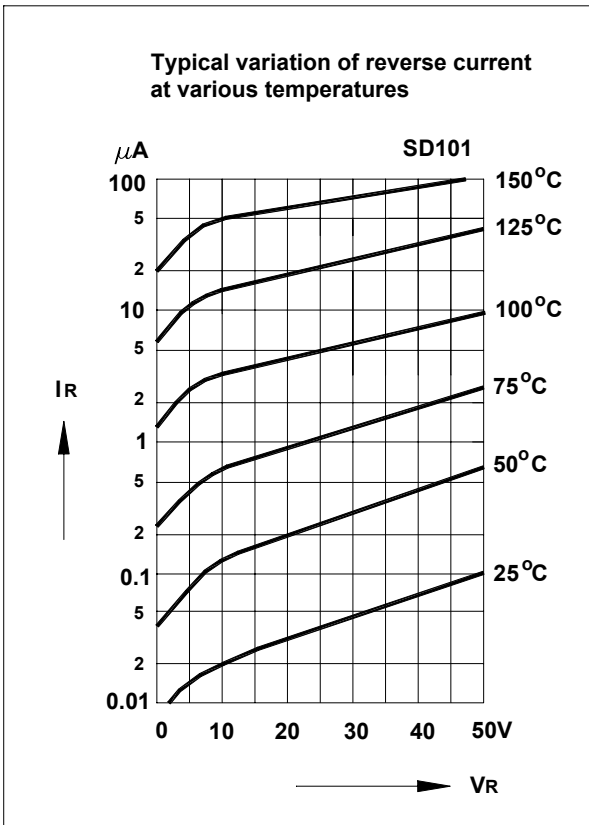
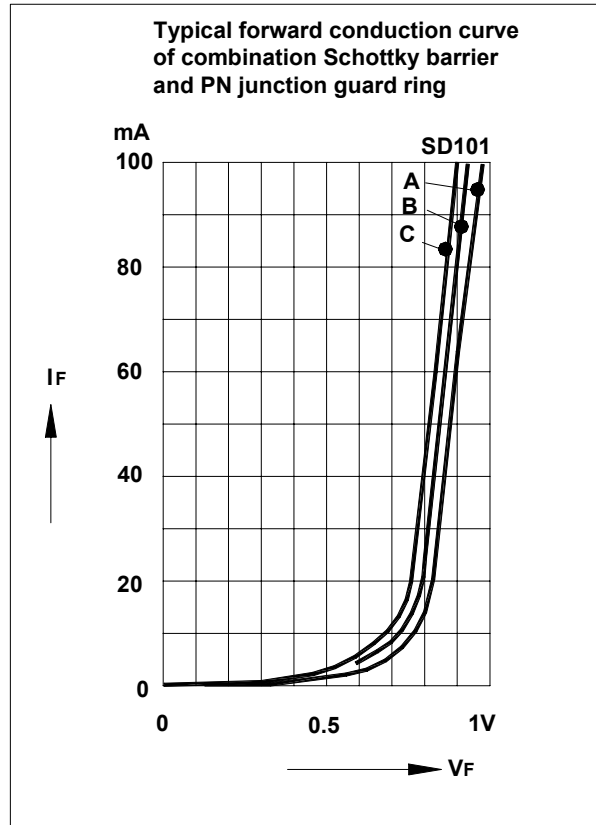
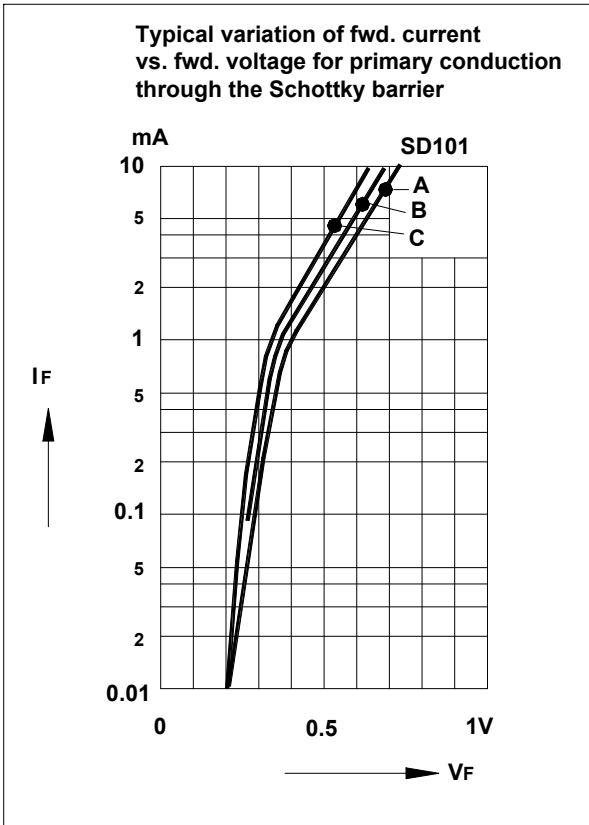
ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 550-1559-04-002-04

Dated : 31/12/2002

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