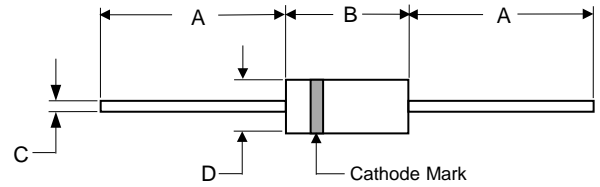


Features

- * 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.



RoHS
COMPLIANT



DO-35				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	1.083	---	27.50	---
B	---	0.154	---	3.90
C	---	0.020	---	0.50
D	---	0.075	---	1.90

Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage SD101A SD101B SD101C	V _{RRM}	60 50 40	V
Non-Repetitive Peak Forward Surge Current at t = 1 s at t = 10 μs	I _{FSM}	50 2	mA A
Power Dissipation	P _{tot}	400 ¹⁾	mW
Junction Temperature	T _j	125	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

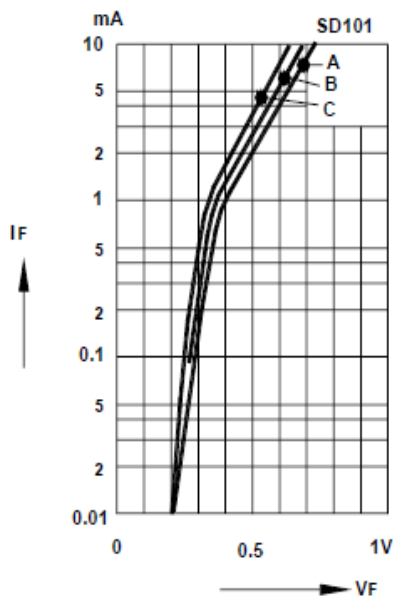
¹⁾ Valid provided the leads direct at the case are kept at ambient temperature.

Electrical Characteristics (T_A=25°C unless otherwise noted)

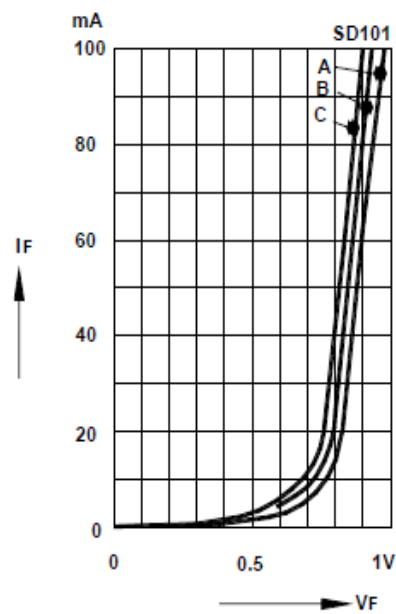
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 10 μA	V _{(BR)R}	SD101A 60	-	V
		SD101B 50	-	
		SD101C 40	-	
Forward Voltage at I _F = 1 mA	V _F	SD101A -	0.41	V
		SD101B -	0.4	
		SD101C -	0.39	
at I _F = 15 mA		SD101A -	1	
		SD101B -	0.95	
		SD101C -	0.9	
Reverse Current at V _R = 50 V	I _R	SD101A -	200	nA
at V _R = 40 V		SD101B		
at V _R = 30 V		SD101C		
Junction Capacitance at V _R = 0 V, f = 1 MHz	C _{tot}	SD101A -	2	pF
		SD101B -	2.1	
		SD101C -	2.2	
Reverse Recovery Time at I _F = I _R = 5 mA, recover to 0.1 I _R	t _{rr}	-	1	ns

Ratings and Characteristic Curves

Typical variation of fwd. current vs. fwd. voltage for primary conduction through the Schottky barrier

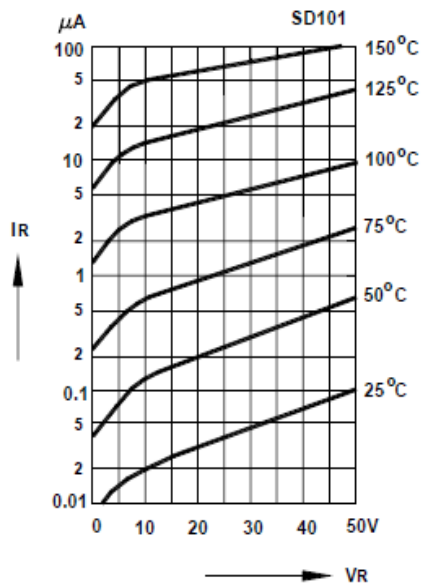


Typical forward conduction curve of combination Schottky barrier and PN junction guard ring

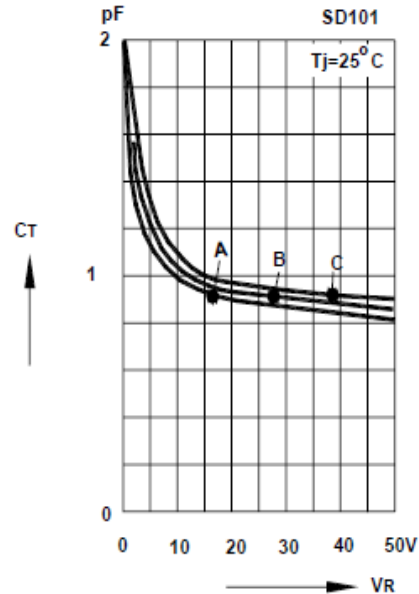


Ratings and Characteristic Curves

Typical variation of reverse current at various temperatures



Typical capacitance curve as a function of reverse voltage



Ordering Information

Part No.	Package	Packing Code	Packing
SD101A,SD101B,SD101C	DO-35	A50	5000pcs/Ammo

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