



Micro Commercial Components

Features

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SD101A THRU SD101C

Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information) Low Reverse Recovery Time **Small Signal** Low Reverse Capacitance **Schottky Diodes**

Mechanical Data

Low Forward Voltage Drop

Case: DO-35, Glass

Terminals: Solderable per MIL-STD-202, Method 208

Guard Ring Construction for Transient Protection

Polarity: Indicated by Cathode Band

Moisture Sensitivity: Level 1 per J-STD-020C

Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	SD101A SD101B SD101C		SD101C
Peak Repetitive Reverse Voltage	Vrrm			
Working Peak Reverse Voltage	VRWM	60V	50V	40V
DC Blocking Voltage	V_R			
RMS Reverse Voltage	V _{R(RMS)}	42V	35V	28V
Maximum sigle cycle surge 10us square wave	Ігѕм	2.0A		
Power Dissipation(Note 2)	Pd	400mW		
Thermal Resistance, Junction to Ambient	R	300K/W		
Junction Tmperature	Tj	125°C		
Operation/Storage Temp. Range	Тѕтс	-55 to +150°C		

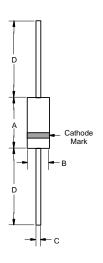
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter		Symbol	Max	Test Condition
Leakage Current	SD101A		200nA	V _R =50V
	SD101B	lr	200nA	VR=40V
	SD101C		200nA	VR=30V
Maximum Forward	SD101A		0.41V	
Voltage Drop	SD101B		0.4V	
	SD101C	VF	0.39V	I _F =1mA
	SD101A	٧F	1V	I _F =15mA
	SD101B		0.95V	
	SD101C		0.9V	
Junction Cap.	SD101A		2.0pF	
	SD101B	Cj	2.1pF	V _R =0V, f=1.0MHz
	SD101C		2.2pF	
Reverse Recovery Time		t _{rr}	1ns	I _F =I _R =50mA, recover to
				200mA/0.11 _R

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.

2. Valid provided that electrodes are kept at ambient temperature

DO-35



DIMENSIONS						
l	INCHES		MM		l	
DIM	MIN	MAX	MIN	MAX	NOTE	
Α		.166		4.2		
В		.079		2.00		
С		.020		.52		
D	1.000		25.40			

SD101A thru SD101C



Figure 1. Typical variation of forward. current vs.fwd. Voltage for primary conduction through the schottky barrier

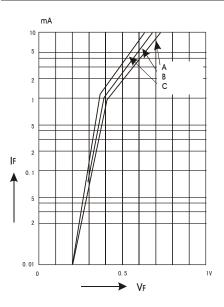


Figure 3. Typical variation of reverse current at versus temperature

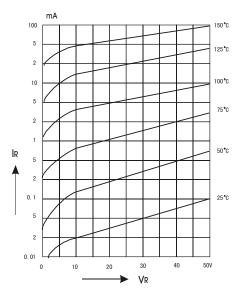


Figure 2. Typical forward conduction curve of combination Schottky barrier and PN junction guard ring

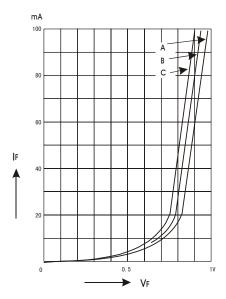
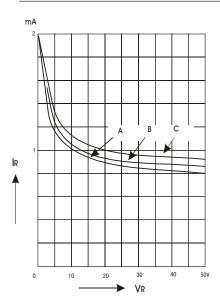


Figure 4. Typical capacitance curve as a function of reverse voltage





Ordering Information

Device	Packing	
(Part Number)-TP	Tape&Reel 10Kpcs/Reel	
(Part Number)-AP	Ammo Packing;5Kpcs/AmmoBox	
(Part Number)-BP	Bulk;500pcs/Bag	

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