



Micro Commercial Components

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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Low Reverse Recovery Time
- Low Reverse Capacitance
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection

Mechanical Data

- Case: DO-35, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Moisture Sensitivity: Level 1 per J-STD-020C

Maximum Patings @25°CUhless Otherwise Specified

Characteristic	Symbol	SD101A	SD101B	SD101C
Peak Repetitive Reverse Voltage	VRRM			
Working Peak Reverse Voltage	VRWM	60V	50V	40V
DC Blocking Voltage	VR			
RMS Reverse Voltage	V _{R(RMS)}	42V	35V	28V
Maximum sigle cycle surge 10us square wave	IFSM	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		

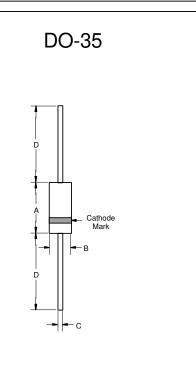
Bectrical Characteristics @25°CUnless Otherwise Specified

Parameter		Symbol	Max	Test Condition
Leakage Current	SD101A		200nA	V _R =50V
_	SD101B	IR	200nA	V _R =40V
	SD101C		200nA	V _R =30V
Maximum Forward	SD101A		0.41V	
Voltage Drop	SD101B		0.4V	
	SD101C	VF	0.39V	I _F =1mA
	SD101A	V⊦	1 V	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	
	+	1.00	IF=IR=50mA, recover to	
Reverse Recovery	/ Time	t _{rr}	1ns	200mA/0.11R

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5. 2. Valid provided that electrodes are kept at ambient temperature

SD101A THRU SD101C

Small Signal Schottky Diodes



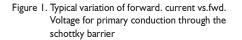
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α		.166		4.2		
В		.079		2.00		
С		.020		.52		
D	1.000		25.40			

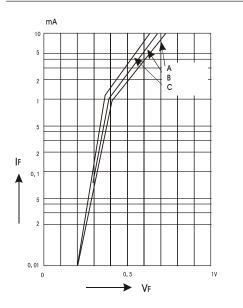
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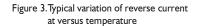
SD101A thru SD101C



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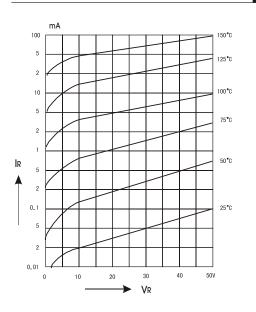


Figure 2. Typical forward conduction curve of combination Schottky barrier and PN junction guard ring

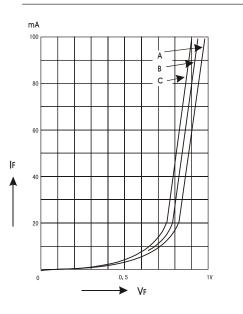
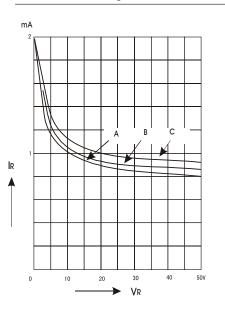


Figure 4. Typical capacitance curve as a function of reverse voltage



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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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