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Part Number	SD103A
product family	SMALL SIGNAL SCHOTTKY DIODES
package type	DO-35
VRM(PRV)	40V
Ifsm	15A
IF(AV)	
@Vf	0.37V
@If	20mA
Trr	10nS
IR	5.0μA
@VR	40V
Package Qty	Bulk: 10K/Box, 100K/Ctn ; Tape : 10K/Reel, 50K/Ctn;

This product is listed under the following categories where you may find similar products:

[Diodes](#)

[Small Signal Schottky Diodes](#)



Micro Commercial Components

SD103A THRU SD103C

Small Signal Schottky Diodes

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

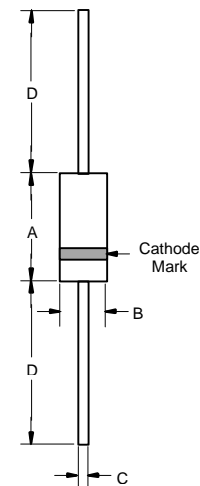
Mechanical Data

- 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 Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	SD103A	SD103B	SD103C
Peak Repetitive Reverse Voltage	V_{RRM}			
Working Peak Reverse Voltage	V_{RWM}	40V	30V	20V
DC Blocking Voltage	V_R			
RMS Reverse Voltage	$V_{R(RMS)}$	28V	21V	14V
Maximum single cycle surge 60Hz sine wave	I_{FSM}	15A		
Power Dissipation(Note 2)	P_d	400mW		
Thermal Resistance, Junction to Ambient	R	300K/W		
Junction Temperature	T_j	125°C		
Operation/Storage Temp. Range	T_{STG}	-55 to +150°C		

DO-35



Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Type	Max	Test Condition
SD103A Leakage Current	I_R	-----	5.0uA	$V_R=30V$
SD103B Leakage Current	I_R	-----	5.0uA	$V_R=20V$
SD103C Leakage Current	I_R	-----	5.0uA	$V_R=10V$
Maximum Forward Voltage Drop	V_{FM}	-----	0.37V 0.60V	$I_F=20mA$ $I_F=200mA$
Junction Capacitance	C_j	50pF	-----	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	t_{rr}	10ns	-----	$I_F=I_R=50mA, \text{recover to } 200mA/0.1I_R$

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

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



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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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