



**Micro Commercial Components** 

#### Features

Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

CA 91311

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**Micro Commercial Components** 

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- 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	Vrrm			
Working Peak Reverse Voltage	Vrwm	40V	30V	20V
DC Blocking Voltage	V <sub>R</sub>			
RMS Reverse Voltage	V <sub>R(RMS)</sub>	28V	21V	14V
Maximum sigle cycle surge 60Hz sine wave	IFSM	15A		
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 <sup>°</sup> C		

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Туре	Мах	Test Condition
SD103A			5.0uA	VR=30V
Leakage SD103B	I <sub>R</sub>		5.0uA	V <sub>R</sub> =20V
Current SD103C			5.0uA	V <sub>R</sub> =10V
Maximum Forward	Vfm		0.37V	I⊧=20mA
Voltage Drop			0.60V	I <sub>F</sub> =200mA
Junction Capacitance	Cj	50pF		V <sub>R</sub> =0V, f=1.0MHz
Reverse Recovery Time	trr	10ns		IF=IR=50mA, recover to
				200mA/0.1IR



2. Valid provided that electrodes are kept at ambient temperature

# **SD103A** THRU **SD103C**

### Small Signal **Schottky Diodes**



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













Figure 2. Typical high current forward conduction curve  $t_p=300ms$ ,duty cycle=2%







### SD103A thru SD103C



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Figure 5. Blocking deration versus temperature at various average forward currents





#### **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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