

## Small Signal Schottky Barrier Diodes

### Features

- Low forward voltage drop
- Guard ring construction for transient protection
- Low reverse recovery time
- Low reverse capacitance
- RoHS compliant



DO-35



### Mechanical Data

<b>Case:</b>	Molded Glass DO-35
<b>Terminals:</b>	Solderable per MIL-STD-202E, Method 208
<b>Polarity:</b>	Color band denotes cathode end
<b>Weight:</b>	0.13 grams

### Maximum Ratings and Electrical Characteristics ( $T_A=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Parameter	SD103A	SD103B	SD103C	Units	Condition
<b>VRRM</b>	Max. Peak Repetitive Reverse Voltage	40	30	20	V	
<b>VRMS</b>	Max. RMS Reverse Voltage	28	21	14	V	
<b>I<sub>AV</sub></b>	Max. Average Rectified Current	0.35			A	
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current ( $t \leq 0.3\text{ms}$ )	15			A	
<b>P<sub>D</sub></b>	Power Dissipation Derate Above 25°C	400			mW	
<b>V<sub>F</sub></b>	Max. Forward Voltage	0.37			V	I <sub>F</sub> =20mA
		0.60				I <sub>F</sub> =200mA
<b>I<sub>R</sub></b>	Max. Reverse Current	5.0@30V	5.0@20V	5.0@10V	μA	
<b>C<sub>J</sub></b>	Typ. Junction Capacitance	50			pF	V <sub>R</sub> =0V, f=1MHz
<b>T<sub>rr</sub></b>	Typ. Reverse Recovery Time	10			ns	From I <sub>F</sub> =50mA to I <sub>R</sub> =200mA, R <sub>L</sub> =100Ω
<b>R<sub>θJA</sub></b>	Max. Thermal Resistance	250			°C/W	

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## SD103A - SD103C

Symbol	Parameter	SD103A	SD103B	SD103C	Units	Condition
T <sub>STG</sub>	Storage Temperature Range	-65 to 175			°C	

### Typical Characteristics Curves *(T<sub>A</sub>=25°C unless noted otherwise)*

Fig.1- Admissible Power Dissipation versus Ambient Temperature

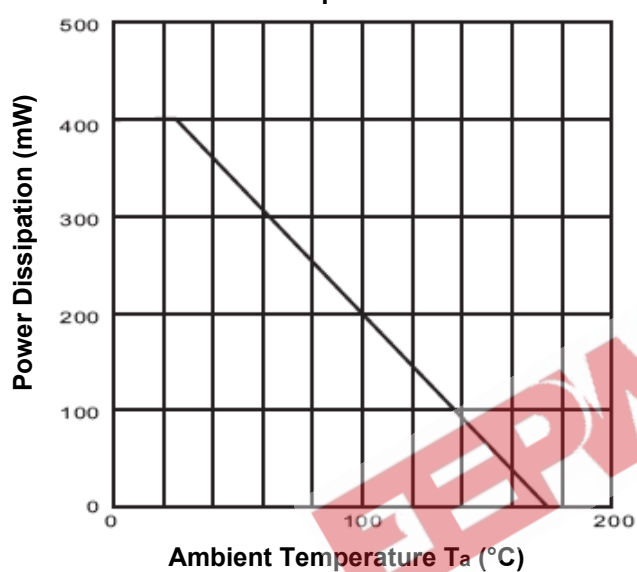


Fig. 2-Typical Forward Characteristics

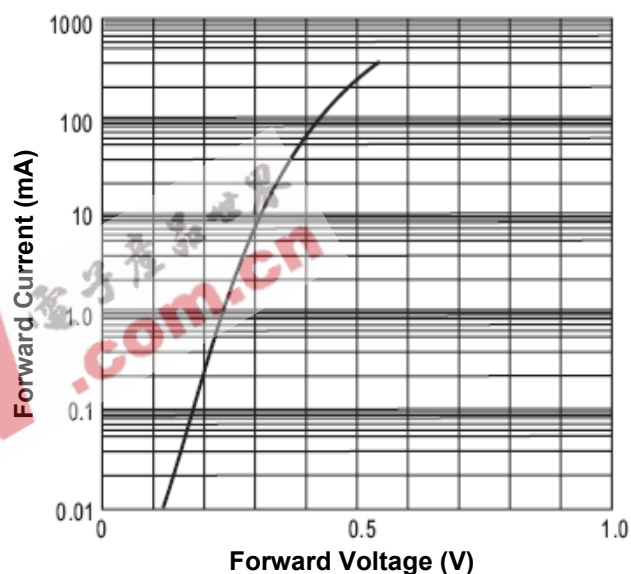
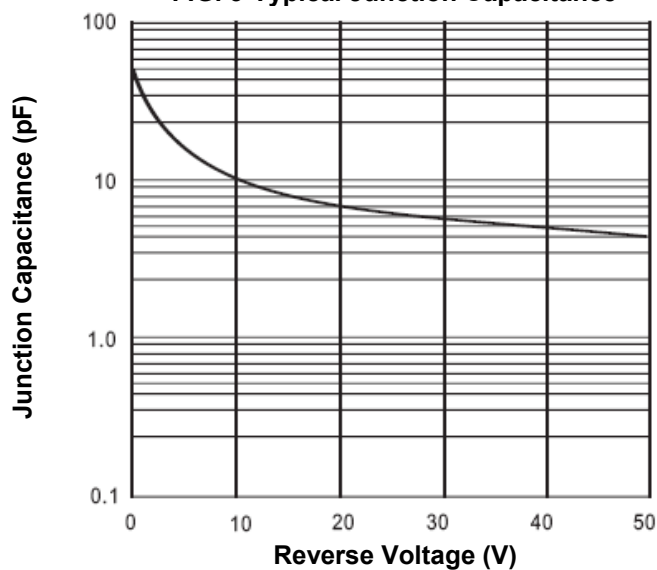


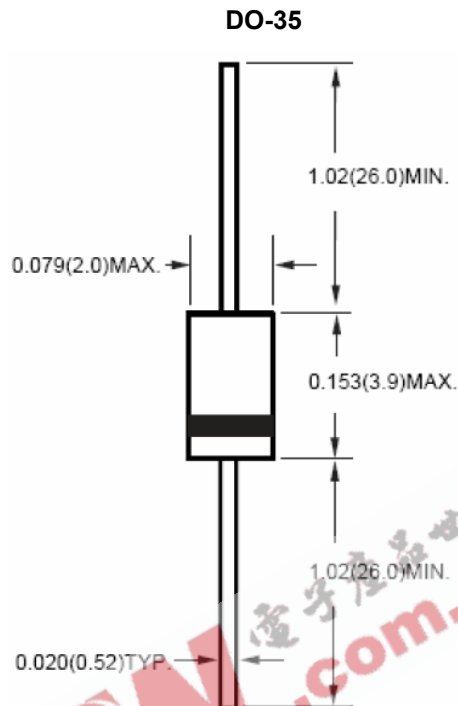
FIG. 3-Typical Junction Capacitance



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## SD103A - SD103C

### Dimensions in inch (mm)



### How to contact us:

#### US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 247-2232 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: [taitron@taitroncomponents.com](mailto:taitron@taitroncomponents.com)

Http://[www.taitroncomponents.com](http://www.taitroncomponents.com)

#### TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO

C.P. 42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

#### TAITRON COMPONETS INCORPORATED E REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001  
BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

#### TAITRON COMPONETS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-54249942

Fax: +86-21-5424-9931