

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

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

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

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

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SD103A - SD103C

Symbol	Parameter	SD103A	SD103B	SD103C	Units	Condition
T _{STG}	Storage Temperature Range	-65 to 175			°C	

Typical Characteristics Curves *(T_A=25°C unless noted otherwise)*

Fig.1- Admissible Power Dissipation versus Ambient Temperature

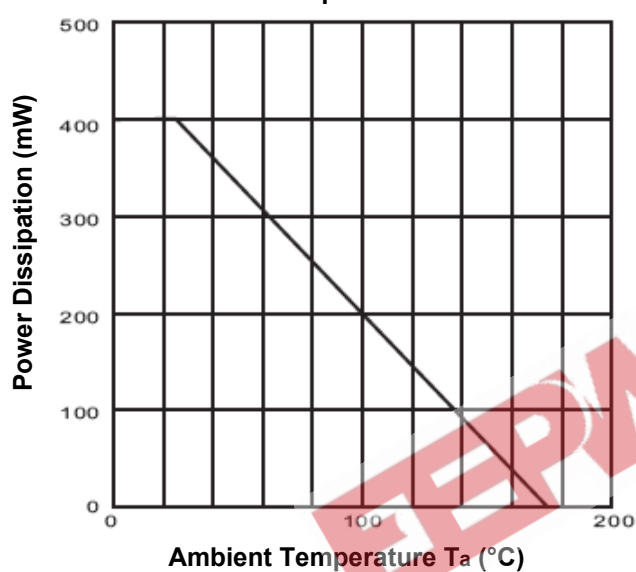


Fig. 2-Typical Forward Characteristics

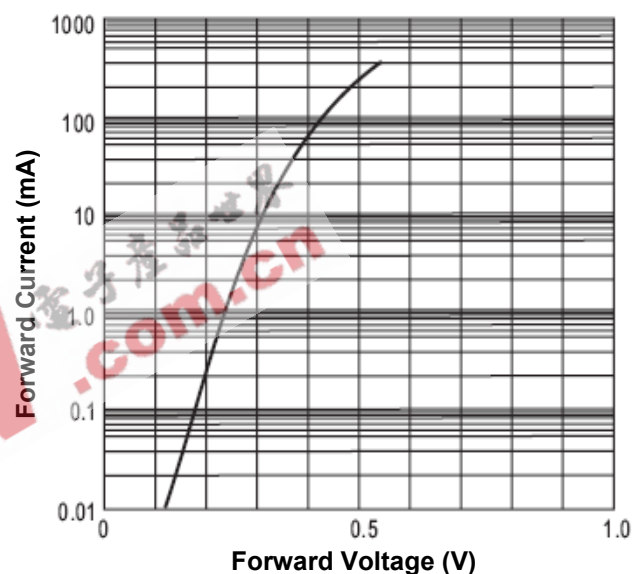
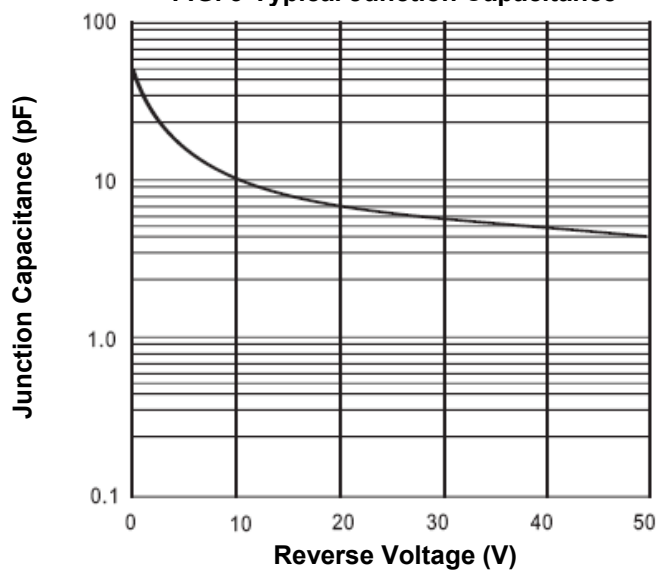


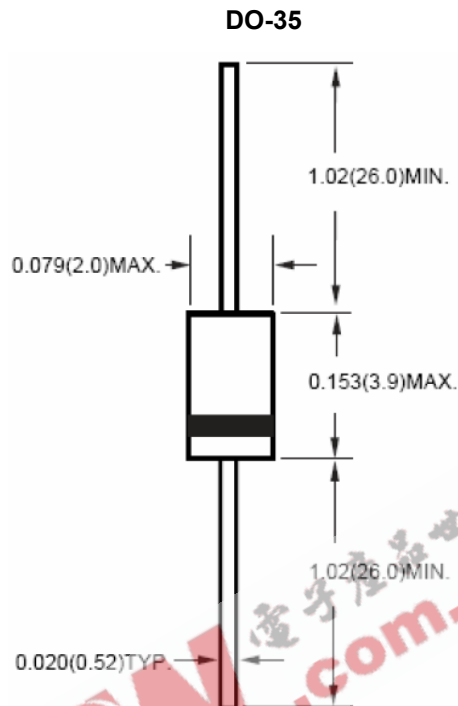
FIG. 3-Typical Junction Capacitance



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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

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