

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-750, Method 2026
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
V_{RRM}	Max. Peak Repetitive Reverse Voltage	40	30	20	V	
V_{RMS}	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
		0.70				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
TSTG	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

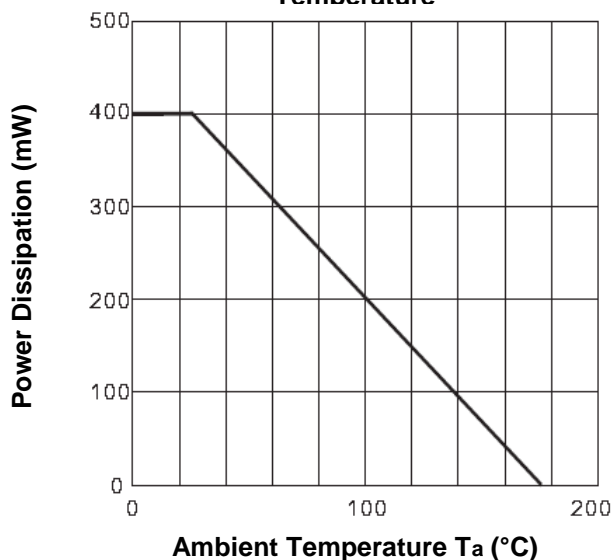


Fig. 2-Typical Forward Characteristics

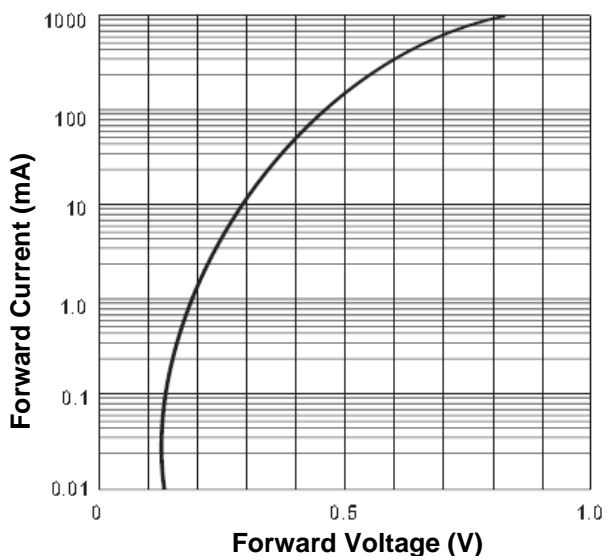
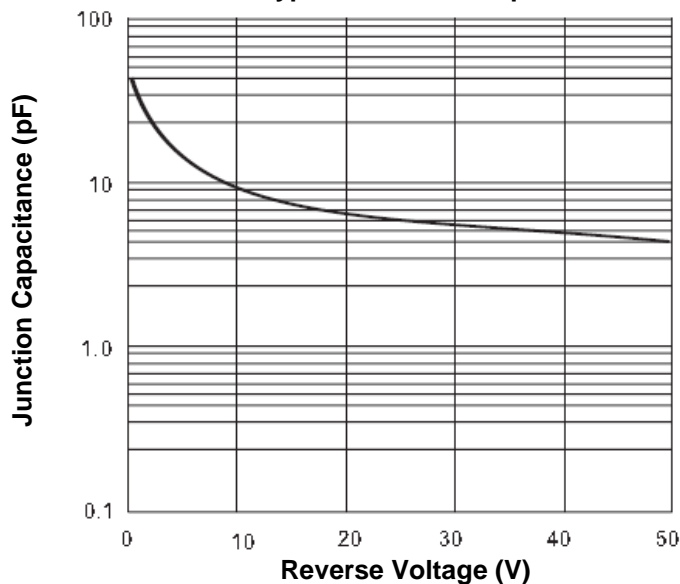


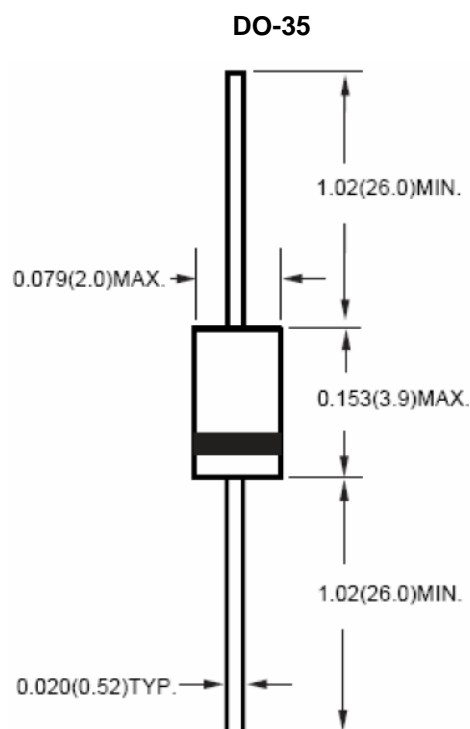
FIG. 3-Typical Junction Capacitance



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SD103A - SD103C

Dimensions in inch (mm)



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