



SD103A~SD103C

SMALL SIGNAL SCHOTTKY BARRIERS SWITCHING DIODES

Voltage Range 20-40 Volts

Current 0.35 Amperes

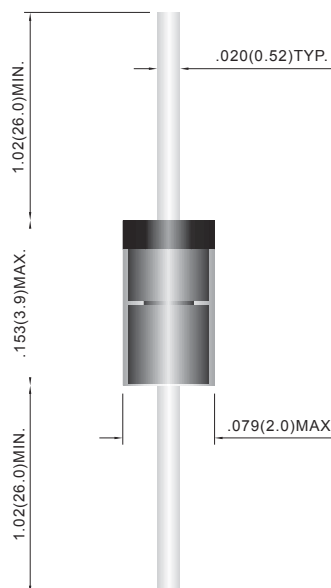
Features

- * Low Forward Voltage Drop
- * Guard Ring Construction for Transient Protection
- * Low Reverse Recovery Time
- * Low Reverse Capacitance
- * Both normal and Pb free product are available :
 Normal : 80~95% Sn, 5~20% Pb
 Pb free: 98.5% Sn above

Mechanical Data

Case: Molded Glass DO-35
 Terminals: Solderable per MIL-STD-202E, Method 208
 Polarity: See Diagram Below
 Approx. Weight: 0.13 grams
 Mounting Position: Any
 Ordering information
 Suffix : " -35 " to order DO-35 Package
 Packing information
 B - 2K per Bulk box
 T/R - 10K per 13" plastic Reel
 T/B - 5K per horiz. tape & Ammo box

DO-35



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics (T_J=25°C, unless otherwise noted)

PARAMETER	SYMBOL	SD 103A	SD 103B	SD 103C	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	40	30	20	V
RMS Reverse Voltage	V _{RMS}	28	21	14	V
Max. Average Rectified Current	I _O	350			mA
Peak Forward Surge Current, t ≤ 0.3ms	I _{FSM}	15			A
Power Dissipation Derate Above 25°C	P _D	400			mW
Maximum Forward Voltage, I _F = 20mA I _F = 200mA	V _F	0.37 0.60			V
Maximum Reverse Current	I _R	5@30V	5@20V	5@10V	uA
Typical Junction Capacitance(Note 1)	C _J	50			pF
Typical Reverse Recovery (Note 2)	T _{RR}	10			ns
Maximum Thermal Resistance	R _{θJA}	250			°C / W
Storage Temperature Range	T _{STG}	-65 TO +175			°C

NOTE:

1. C_J at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

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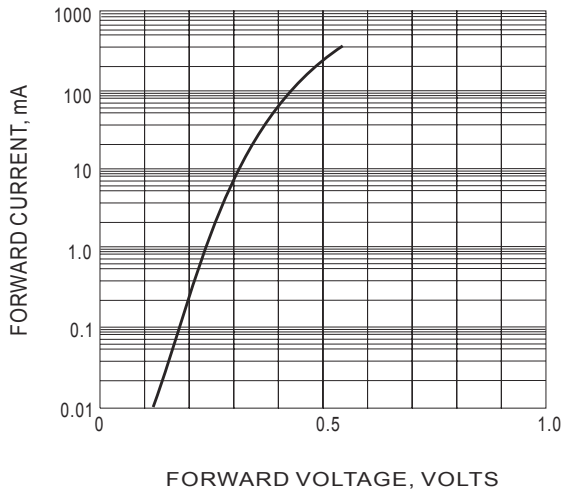


Fig.1 Forward Characteristics

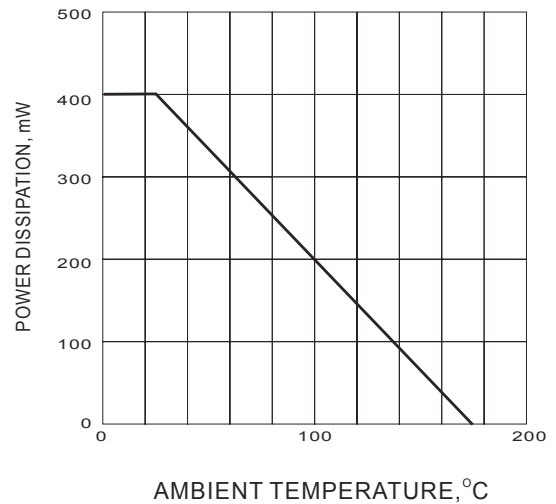


Fig.2 Power Dissipation Derating Curve

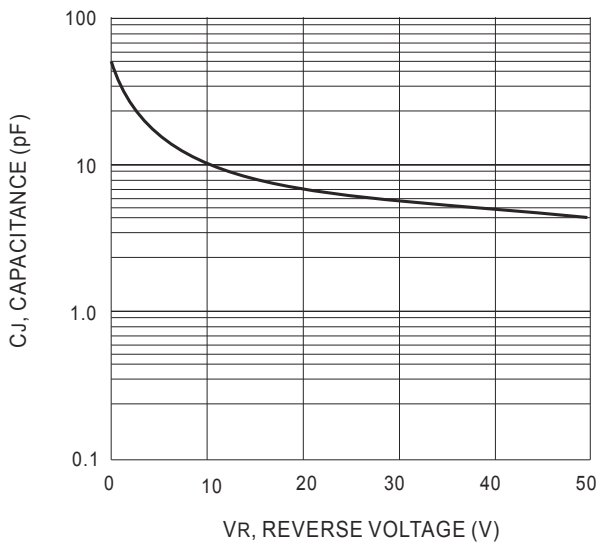


Fig.3 Typical Capacitance Vs Reverse Voltage