

VOLTAGE RANGE: 20 - 40V
CURRENT: 350 mA

Features

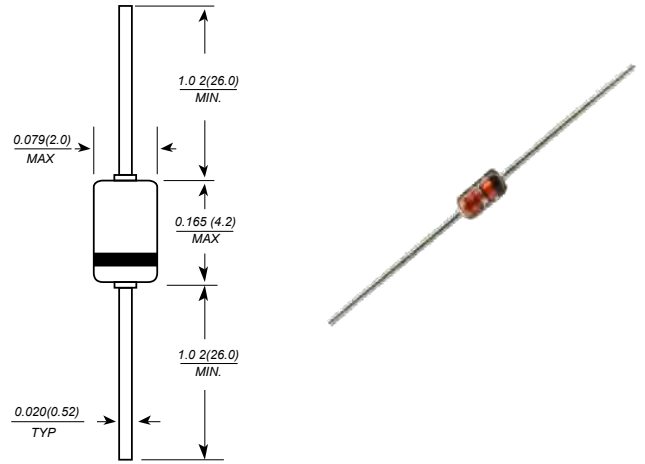
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance

Mechanical Data

- Case: DO-35, Glass
- Leads: Solderable per MIL-STD-202, Method 208
- Marking: Type Number
- Polarity: Cathode Band
- Weight: 0.13 grams (approx.)



DO-35(GLASS)



Dimensions in millimeters

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	SD103A	SD103B	SD103C	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	40	30	20	V
Working Peak Reverse Voltage	V _{RWM}				
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{R(RMS)}	28	21	14	V
Forward Continuous Current	I _{FM}	350			mA
Repetitive Peak Forward Current @ t ≤ 1.0s	I _{FRM}	1.0			A
Non-Repetitive Peak Forward Surge Current 8.3 ms Half Sine Wave	I _{FSM}	15			A
Power Dissipation	P _d	400			mW
Thermal Resistance, Junction to Ambient Air	R _{θJA}	300			K/W
Operating Junction Temperature	T _j	125			°C
Storage Temperature Range	T _{STG}	-55 to +150			°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage	V _{(BR)R}	40 30 20			V	I _{RS} = 100μA (pulsed)
Maximum Forward Voltage Drop	V _{FM}	—	—	0.37 0.60	V	I _F = 20mA I _F = 200mA
Maximum Peak Reverse Current	I _{RM}	—	—	5.0	μA	V _R = 30V V _R = 20V V _R = 10V
Junction Capacitance	C _j	—	50	—	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}	—	10	—	ns	I _F = I _R = 50mA to 200mA, I _{rr} = 0.1 x I _R , R _L = 100Ω

RATINGS AND CHARACTERISTIC CURVES SD103A THRU SD103C

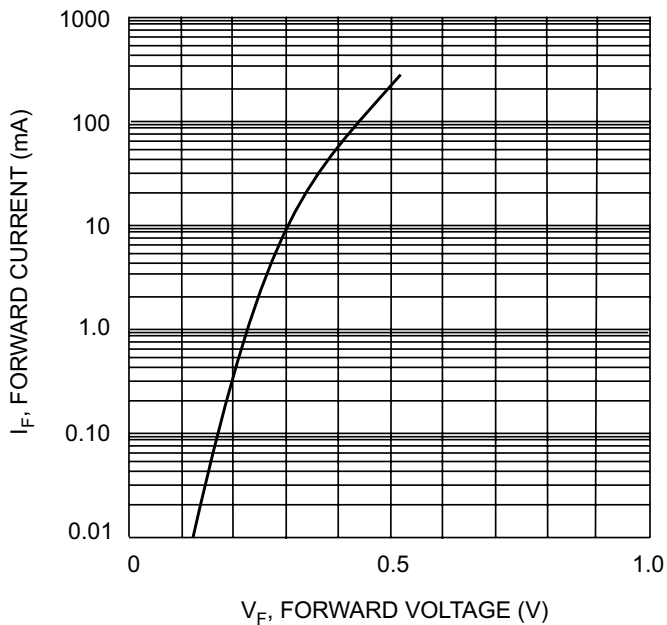


Fig. 1 Typical Forward Characteristics

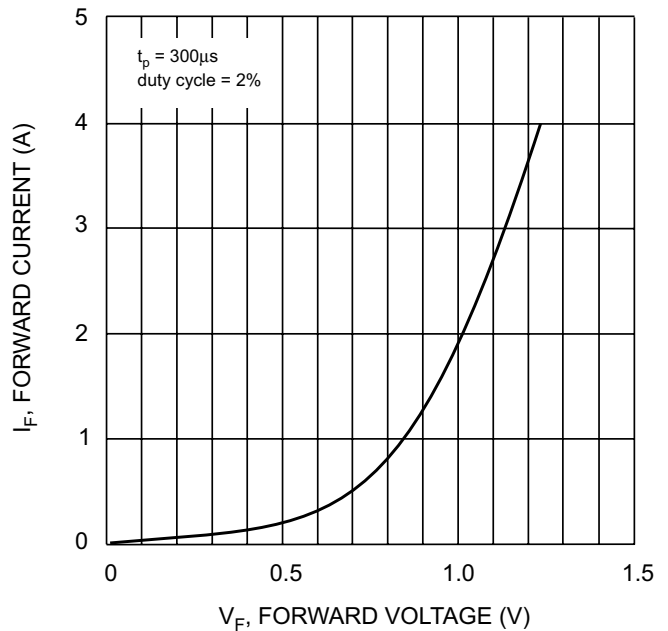


Fig. 2 Typical High Current Fwd Characteristics

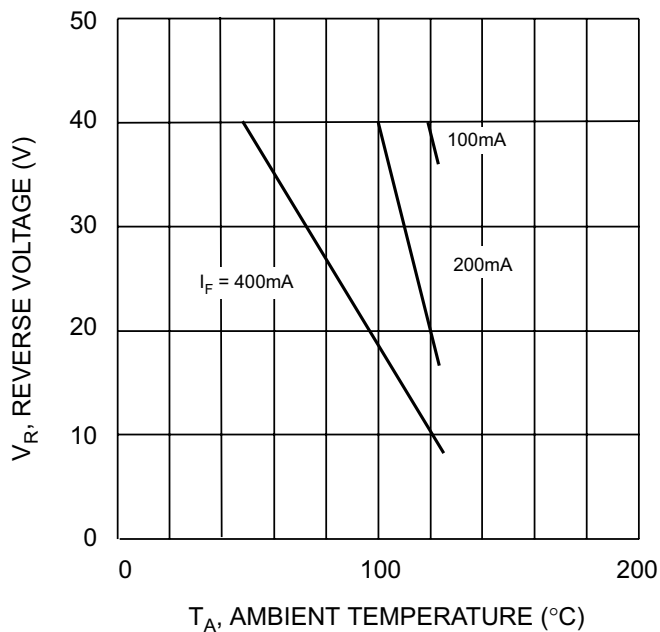


Fig. 3 Blocking Voltage Derating Curves

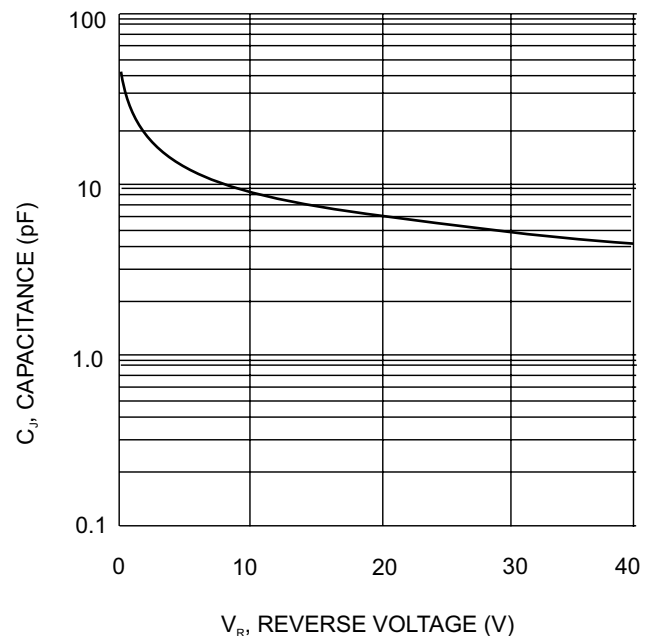


Fig. 4 Typ. Junction Capacitance vs Reverse Voltage

单击下面可查看定价，库存，交付和生命周期等信息

[>>SUNMATE\(森美特\)](#)