

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

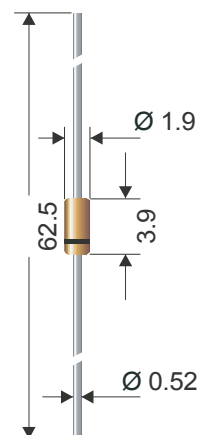
Features

- * 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
- * Polarity:Cathode Band
- * Weight:0.13 grams (approx.)

DO-35



Dimensions / Maße in mm

Maximum Ratings

Characteristic	Item	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	SD103A	V_{RRM}	40	V
	SD103B		30	
	SD103C		20	
Forward Continuous Current		I_{FM}	350	mA
RMS Reverse Voltage	SD103A	V_R	28	V
	SD103B		21	
	SD103C		14	
Repetitive Peak Forward Current @ $t \leq 1.0s$		I_{FRM}	1.0	A
Power Dissipation at $T_{amb}=25^{\circ}C$		P_{tot}	400	mW
Storage Temperature Range		T_s	-65 ~ +175	$^{\circ}C$

Electrical Characteristics at $T_j=25^{\circ}C$

Symbol			Min	Typ	Max	Unit
Forward Voltage	@ $I_F=20mA$	V_F	-	-	0.37	V
	@ $I_F=200mA$		-	-	0.6	
Maximum Peak Reverse Current						
SD103A at $V_R=30V$		I_R	-	-	5.0	μA
SD103B at $V_R=20V$		I_R	-	-	5.0	μA
SD103C at $V_R=10V$		I_R	-	-	5.0	μA
Junction Capacitance at $V_F=V_R=0f=1MHz$		C_{tot}	-	50	-	pF
Reverse Recovery Time From $I_F=-I_R=50mA$ to $200mA$ recover to $0.1 I_R$		t_{rr}	-	10	-	ns
Thermal Resistance, Junction to Ambient Air		R_{thA}	-	0.25	-	K/mW

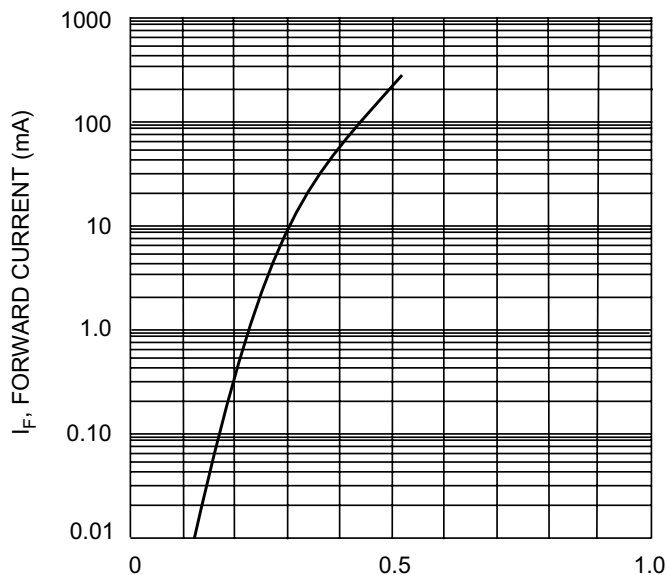


Fig. 1 Typical Forward Characteristics

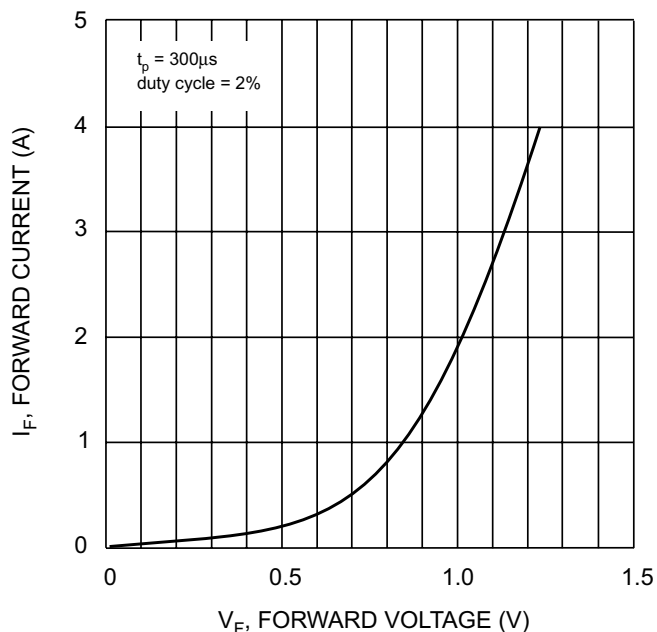


Fig. 2 Typical High Current Fwd Characteristics

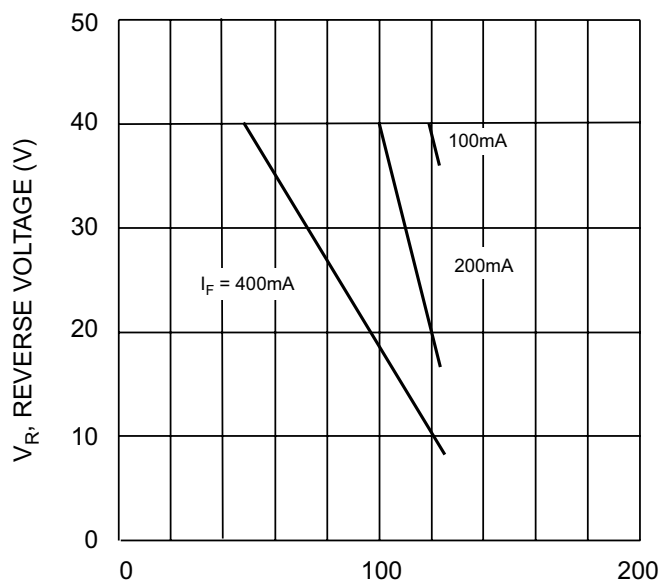


Fig. 3 Blocking Voltage Derating Curves

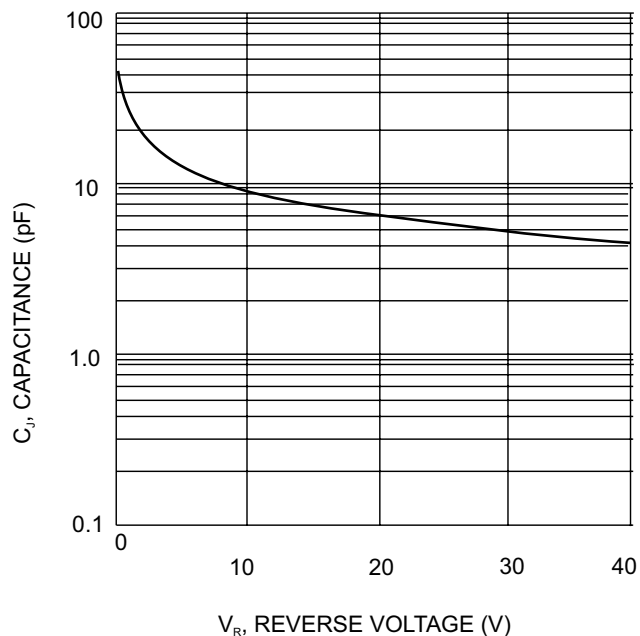


Fig. 4 Typ. Junction Capacitance vs Reverse Voltage