



SD103AWT THRU SD103WT

Reverse Voltage 20~40 Volts Forward Current - 2 Ampere

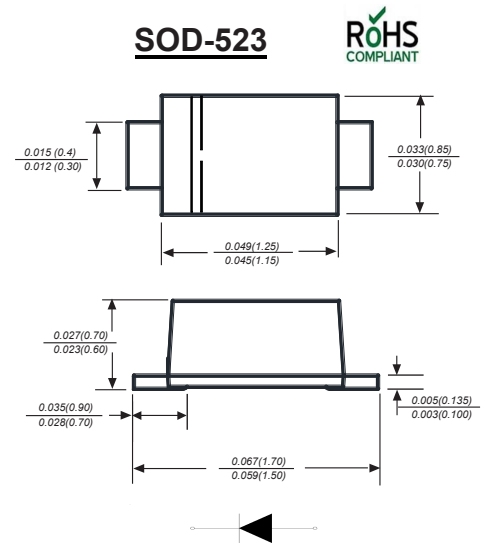
FAST SWITCHING DIODES

Features

- ◆ Low Forward Voltage

Mechanical Data

Case: JEDEC SOD-523 molded plastic body
 Terminals: Solderable per MIL-STD-750, Method 2026
 Polarity: Color band denotes cathode end
 Mounting Position: Any
 Weight: 0.0007 ounce, 0.02 grams
 Marking: S4



Dimensions in inches and (millimeters)

Absolute Maximum Ratings at 25 °C

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
SD103AWT		30	
SD103BWT		20	
Reverse Voltage	V_R	40	V
SD103AWT		30	
SD103BWT		20	
Average Forward Rectified Current	$I_{F(AV)}$	350	mA
Non-Repetitive Peak Forward Surge Current at t = 1 s	I_{FSM}	2	A
Power Dissipation	P_{tot}	200	mW
Operating and Storage Temperature Range	T_j, T_{stg}	- 65 to + 125	°C

Characteristics at Ta= 25 °C

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R=10\mu A$	$V_{(BR)R}$	40	-	-	V
SD103AWT		30	-	-	
SD103BWT		20	-	-	
Reverse Leakage Current at $V_R=30V$ at $V_R=20V$ at $V_R=10V$	I_R	-	-	5	μA
SD103AWT		-	-	5	
SD103BWT		-	-	5	
Forward Voltage at $I_F=20mA$ at $I_F=200mA$	V_F	-	-	0.37	V
SD103AWT		-	-	0.6	
Total Capacitance at $V_R=0V, f=1MHz$	C_T	-	50	-	pF
Reverse Recovery Time at $I_F=I_R=200mA, I_{tr}=0.1I_R, R_L=100\Omega$	t_{rr}	-	10	-	ns



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Typical Characteristics

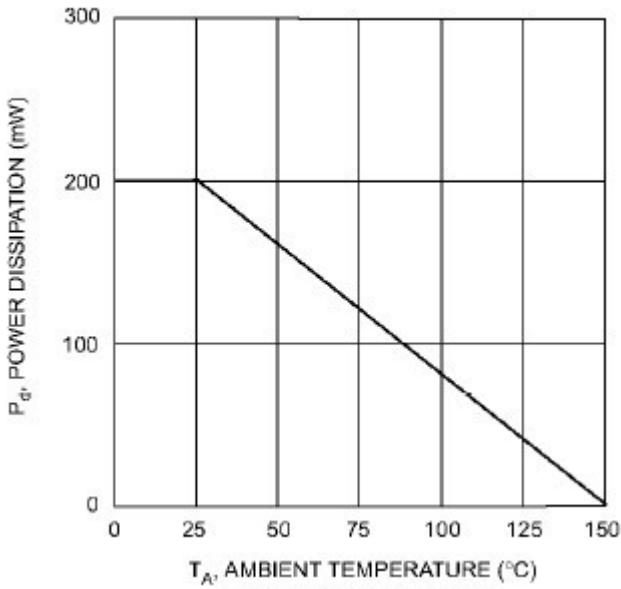


Fig. 1 Power Derating Curve

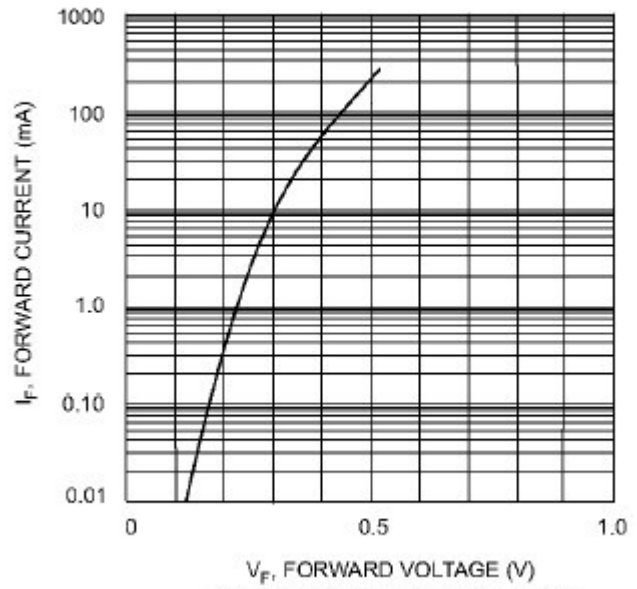


Fig. 2 Typical Forward Characteristics

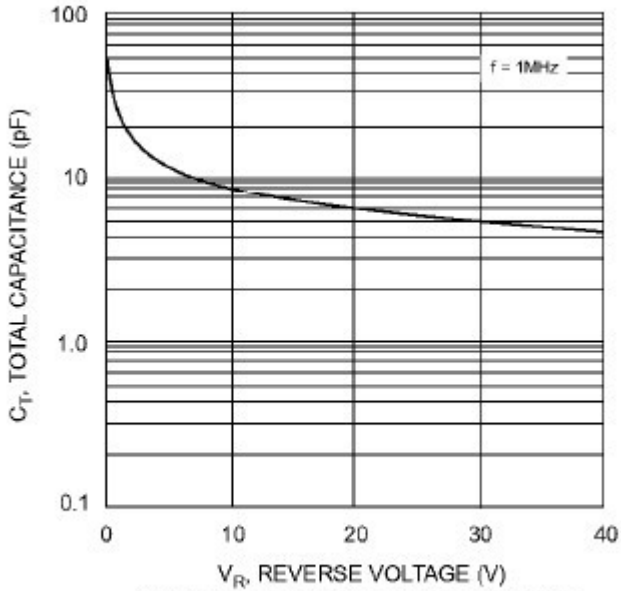


Fig. 3 Total Capacitance vs Reverse Voltage

The curve above is for reference only.