



SD103AWT THRU SD103WT

Reverse Voltage 20~40 Volts Forward Current - 2 Ampere

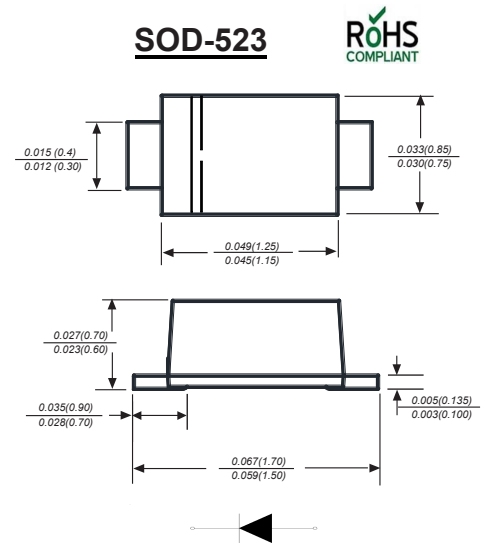
FAST SWITCHING DIODES

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 30 20	V
Reverse Voltage	V_R	40 30 20	V
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 $T_a = 25$ °C

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



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Typical Characteristics

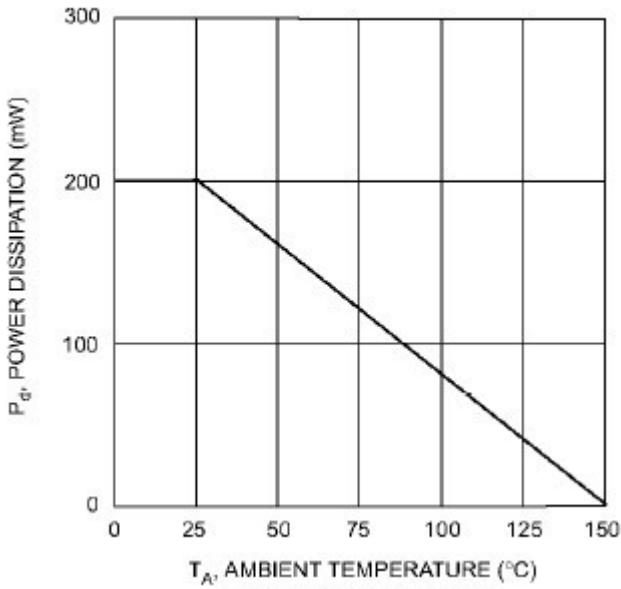


Fig. 1 Power Derating Curve

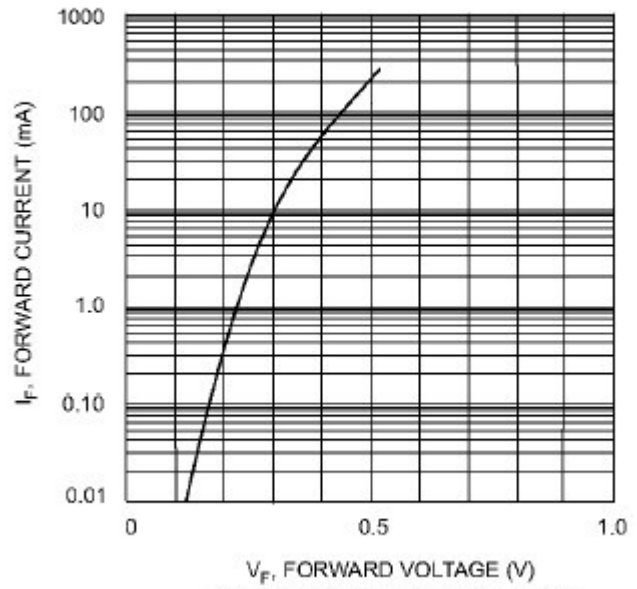


Fig. 2 Typical Forward Characteristics

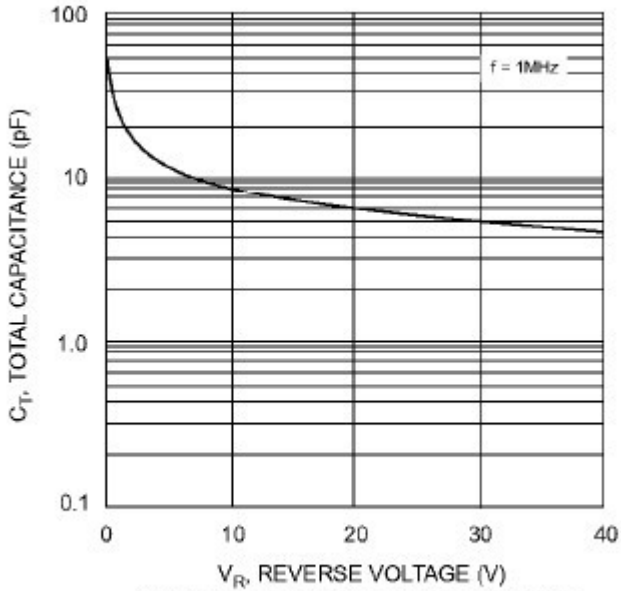


Fig. 3 Total Capacitance vs Reverse Voltage

The curve above is for reference only.

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