SD103AWT THRU SD103CWT

Reverse Voltage 20~40 Volts Forward Current - 2 Ampere

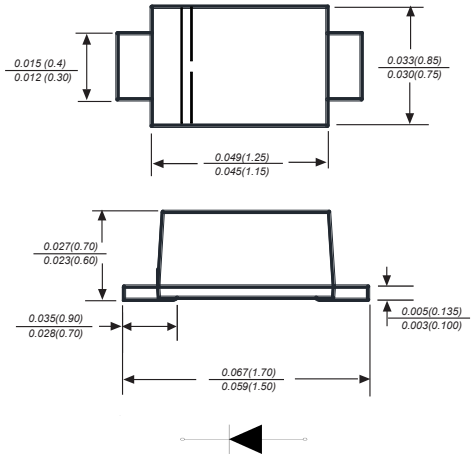
FAST SWITHING DIODES

Features

- Low Forwa rd Voltage

SOD-523

RoHS COMPLIANT



Dimensions in inches and (millimeters)

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

Absolute Maximum Ratings at 25 °C

Parameter		Symbol	Value	Unit
Peak Repetitive Reverse Voltage	SD103AWT SD103BWT SD103CWT	V_{RRM}	40 30 20	V
Reverse Voltage	SD103AWT SD103BWT SD103CWT	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 Ta= 25 °C

Parameter		Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at I_R=10uA	SD103AWT SD103BWT SD103CWT	$V_{(BR)R}$	40 30 20	- - -	- - -	V
Reverse Leakage Current at V_R =30V at V_R = 20 V at V_R = 10 V	SD103AWT SD103BWT SD103CWT	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 = 0 V, f = 1 MHz		C_T	-	50	-	pF
Reverse Recovery Time at I_F = I_R = 200 mA, I_{rr} = 0.1 I_R, R_L = 100 Ω		t_{rr}	-	10	-	ns

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Typical Characterisitics

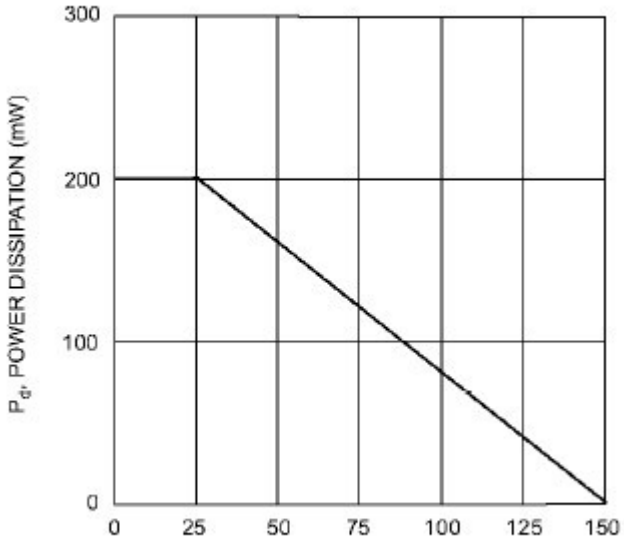

Fig. 1 Power Derating Curve

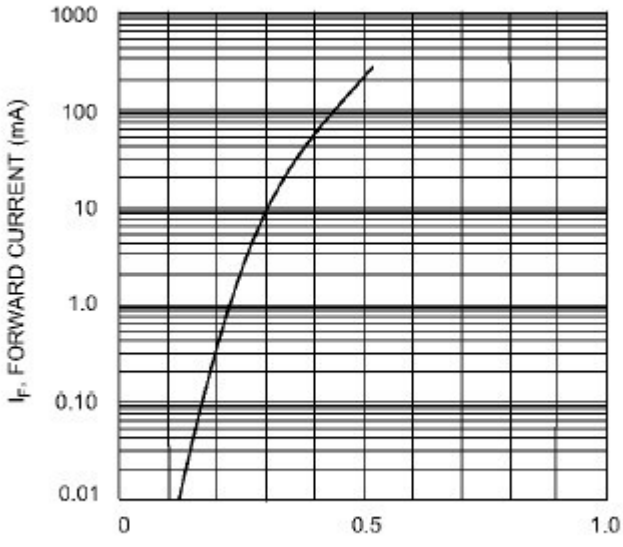

Fig. 2 Typical Forward Characteristics

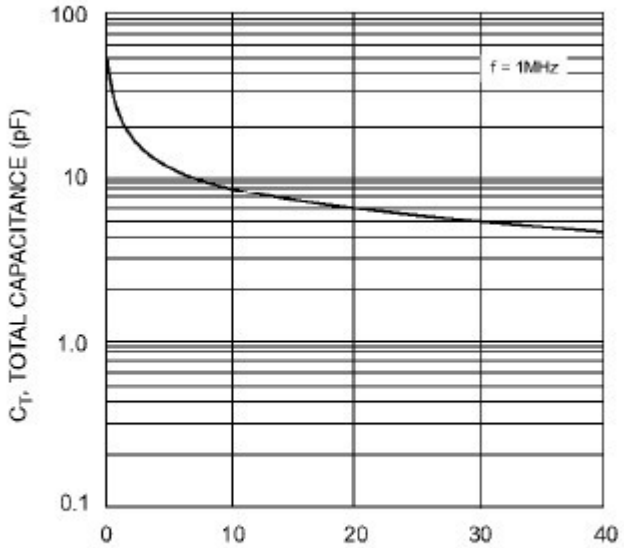

Fig. 3 Total Capacitance vs Reverse Voltage

The curve above is for reference only.