

Features

- ◆ Low forward voltage drop
- ◆ Guard ring construction for transient protection
- ◆ Negligible reverse recovery time

Mechanical Data

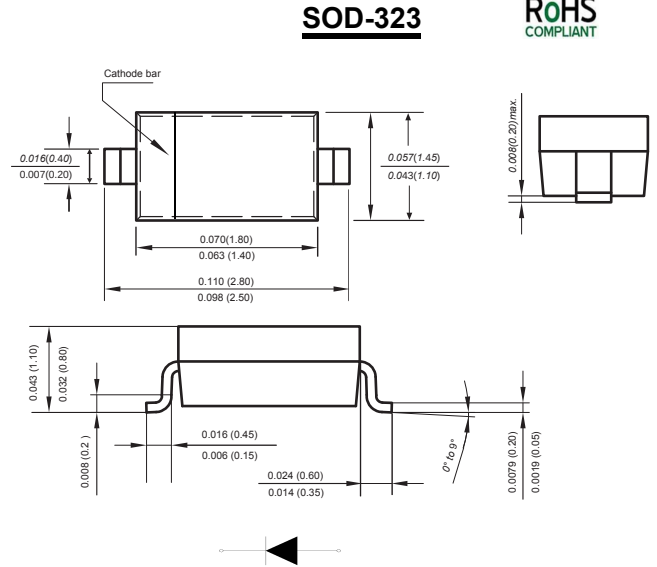
Case : JEDEC SOD-323 molded plastic body Terminals :

Plated leads solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbols marked on case

Weight : 0.0007 ounce, 0.02 grams

Marking: SD103AWS:S4



Dimensions in inches and (millimeters)

Absolute Maximum Ratings at 25 °C

PARAMETER	SYMBOLS	SD103AWS	UNITS
Peak repetitive peak reverse voltage	V_{RRM}	40	VOLTS
Working peak reverse voltage	V_{RMS}		
DC Blocking voltage	V_{DC}		
RMS Reverse voltage	$V_{R(RMS)}$	28	V
Forward continuous current	I_{FM}	350	mA
Repetitive peak forward current at $\leq 1.0s$	I_{FRM}	1.5	A
Power dissipation	P_d	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	300	°C/W
Junction temperature	T_j	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

PARAMETER	SYMBOLS	Min.	Typ.	Max.	Unit	Conditions
Reverse break down voltage Reverse	$V_{(BR)R}$	40			V	$I_R = 100\mu A$
Forward voltage	V_F			0.37 0.60	V	$I_F = 20mA$ $I_F = 200mA$
Reverse current	I_{RM}			5.0	μA	$V_R = 30V$ $V_R = 20V$ $V_R = 10V$
Capacitance between terminals	C_T		50		pF	$V_R = 0V, f = 1.0MHz$
Reverse recovery time	t_{rr}		10		ns	$I_F = I_R = 200mA$ $I_{rr} = 0.1 \times I_R, R_L = 100\ \Omega$

Typical Characteristics

