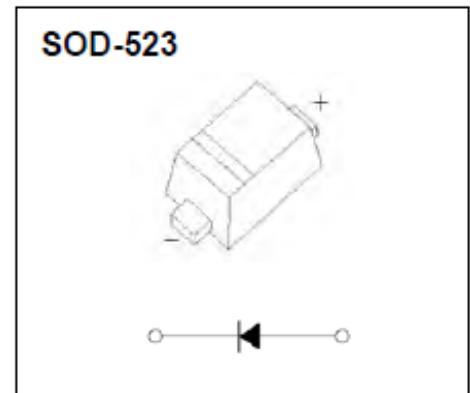
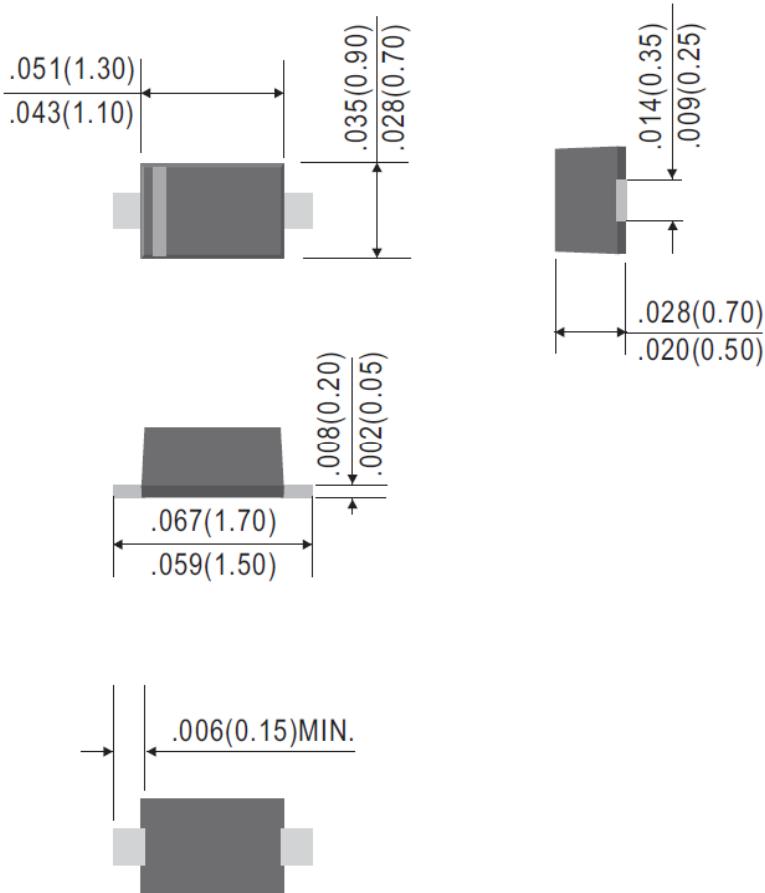




SD103AX

Pb RoHS

SCHOTTKY BARRIER DIODE



Dimensions in inches and (millimeters)

FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance
- Pb-Free package is available
- RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1
- Polarity: Color band denotes cathod end

MARKING: S4

**SD103AX****SCHOTTKY BARRIER DIODE****Maximum Ratings ($T_a=25^\circ\text{C}$ unless otherwise noted)**

Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Forward Continuous Current	I_O	350	mA
Repetitive Peak Forward Current @ $t \leq 1\text{s}$	I_{FRM}	1	A
Non-Repetitive Peak Forward Surge Current @ 8.3ms Half Sine Wave	I_{FSM}	15	
Power Dissipation	P_D	150	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	667	°C/W
Operating Temperature	T_J	-55~+125	°C
Storage Temperature	T_{STG}	-55~+150	°C

Electrical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	$V_{(BR)}$	$I_R = 100\mu\text{A}$	40	—	—	V
Reverse Current	I_R	$V_R = 30\text{V}$	—	—	5	μA
		$V_R = 20\text{V}$	—	—	2	
		$V_R = 10\text{V}$	—	—	1	
		$I_F = 1\text{mA}$	—	0.27	—	
Forward Voltage	V_F	$I_F = 5\text{mA}$	—	0.32	—	V
		$I_F = 20\text{mA}$	—	—	0.37	
		$I_F = 200\text{mA}$	—	—	0.60	
Total Capacitance	C_T	$V_R = 0\text{V}, f = 1\text{MHz}$	—	50	—	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 200\text{mA}$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$	—	10	—	ns

Typical Characteristics

