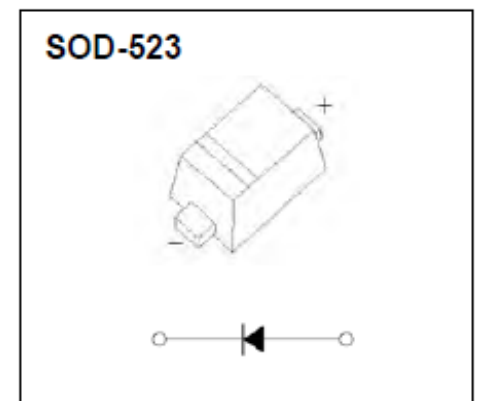
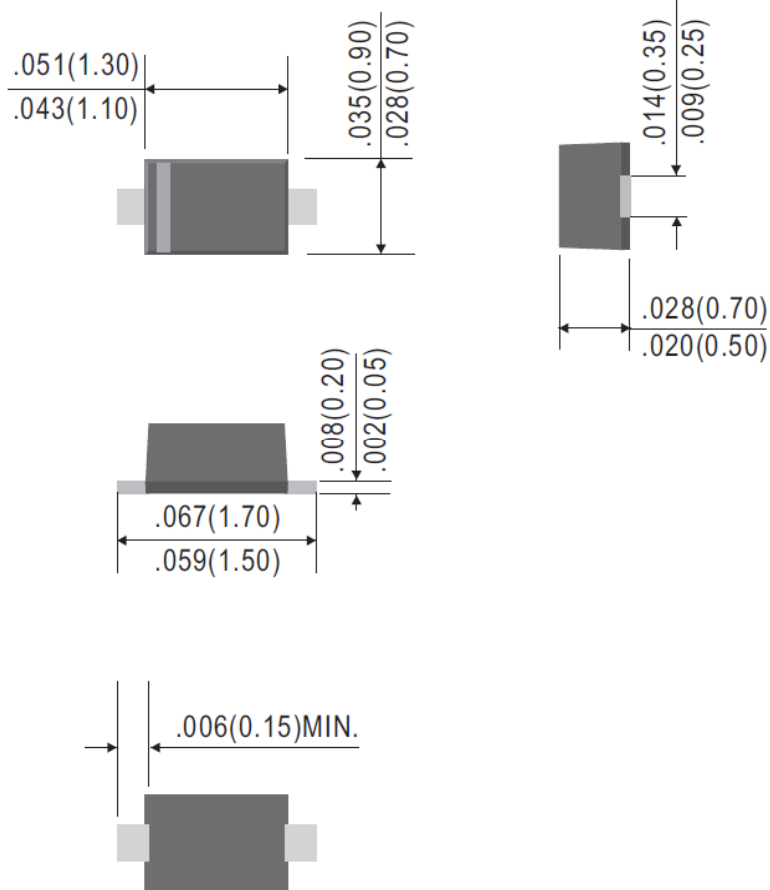




SD103AX



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°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 ≤ 1s	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 _{θJA}	667	°C/W
Operating Temperature	T _J	-55~+125	°C
Storage Temperature	T _{STG}	-55~+150	°C

Electrical Characteristics (T _a =25°C unless otherwise noted)						
Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _(BR)	I _R = 100μA	40	—	—	V
Reverse Current	I _R	V _R =30V	—	—	5	μA
		V _R =20V	—	—	2	
		V _R =10V	—	—	1	
Forward Voltage	V _F	I _F =1mA	—	0.27	—	V
		I _F =5mA	—	0.32	—	
		I _F =20mA	—	—	0.37	
		I _F =200mA	—	—	0.60	
Total Capacitance	C _T	V _R =0V, f=1MHz	—	50	—	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =200mA I _{rr} =0.1X I _R , R _L =100Ω	—	10	—	ns



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SCHOTTKY BARRIER DIODE

Typical Characteristics

