Description

Schottky Diode in a SOD-123 Plastic Package.

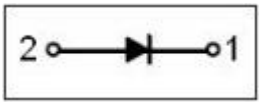
Features

- Low positive pressure drop
- Can ignore the reverse recovery time
- Halogen-free product

Applications

General purpose.

Equivalent Circuit & Pinning



PIN1:Cathode PIN2:Anode

hFE Classifications & Marking

Model	SD103AW	SD103BW	SD103CW
Marking	HS4	HS5	HS6

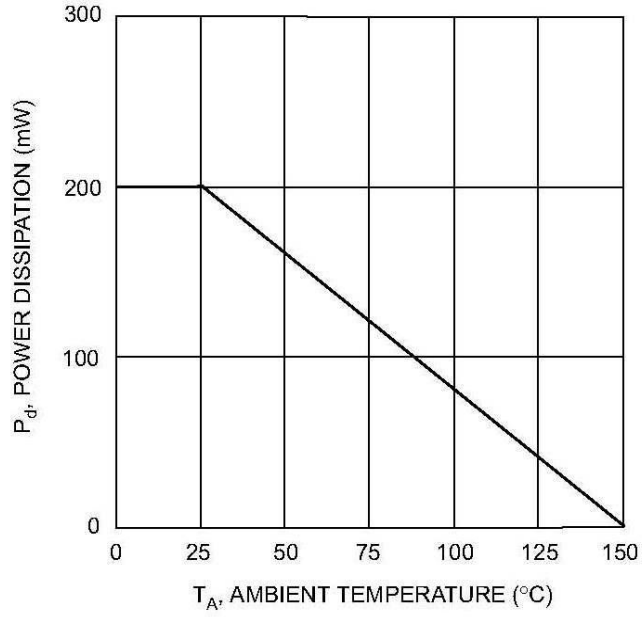
Absolute Maximum Ratings(Ta=25℃)

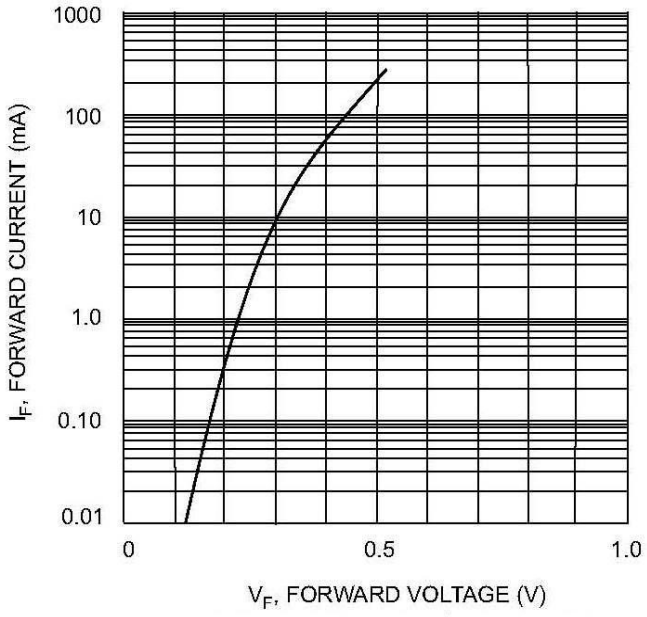
Parameter	Symbol	Rating			Unit
		SD103AW	SD103BW	SD103CW	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_R V_{RRM} V_{RWM}	40	30	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Non-Repetitive Peak Forward Current	I_{FM}	350			mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	1.5			A
Power Dissipation	P_D	400			mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	300			℃/W
Junction and Storage Temperature Range	T_j,T_{STG}	-65～125			℃

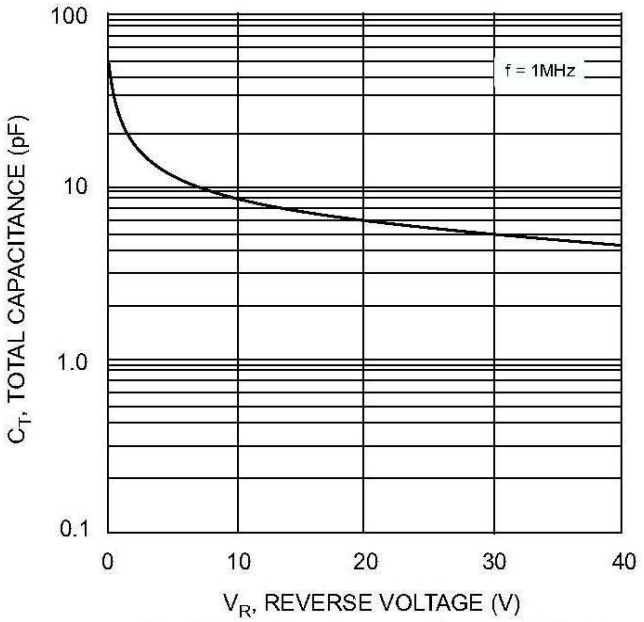
Electrical Characteristics(Ta=25℃)

Parameter		Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Breakdown Voltage		$V_{(BR)R}$	I_R=100μA	VR			V
Peak Forward Voltage		V_{FM}	I_F=20mA			0.37	
			I_F=200mA			0.6	
Peak Reverse Current	SD103AW	I_{RM}	V_R=30V			5	μA
	SD103BW		V_R=20V				
	SD103CW		V_R=10V				
Total Capacitance		C_T	V_R=0V f=1.0MHZ		28		pF
Resistance Range Time		t_{rr}	I_F=I_R=200mA Irr=0.1×I_R R_L=100Ω		10		ns

Electrical Characteristic Curve







Marking instructions

Note:

H: Company Code.

S5: Product Type.

Packaging SPEC.

Package Type	Units					Dimension (unit：mm³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-123	3,000	10	30,000	6	180,000	7″ ×8	180×120×180	390×385×205

Package Outline Dimensions