

/ Descriptions

SOD-323
Schottky Diode in a SOD-323 Plastic Package.

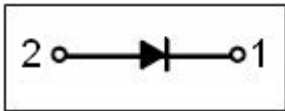
/ Features

Low positive pressure drop, can ignore the reverse recovery time,HF Product.

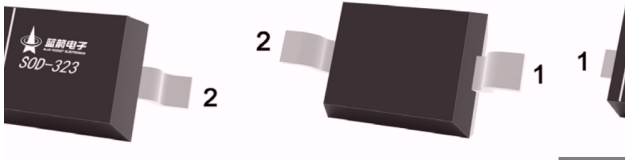
/ Applications

General purpose.

/ Equivalent Circuit



/ Pinning



PIN1:Cathode PIN2:Anode

/ Marking

Model	SD103AWS	SD103BWS	SD103CWS
Marking	HS4	HS5	HS6

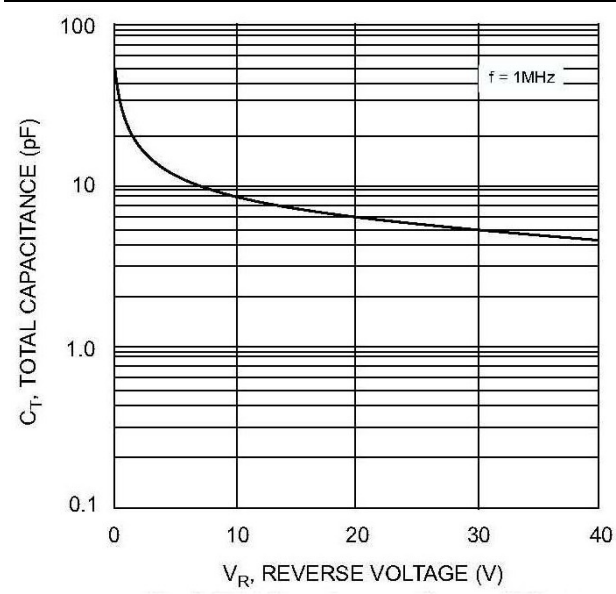
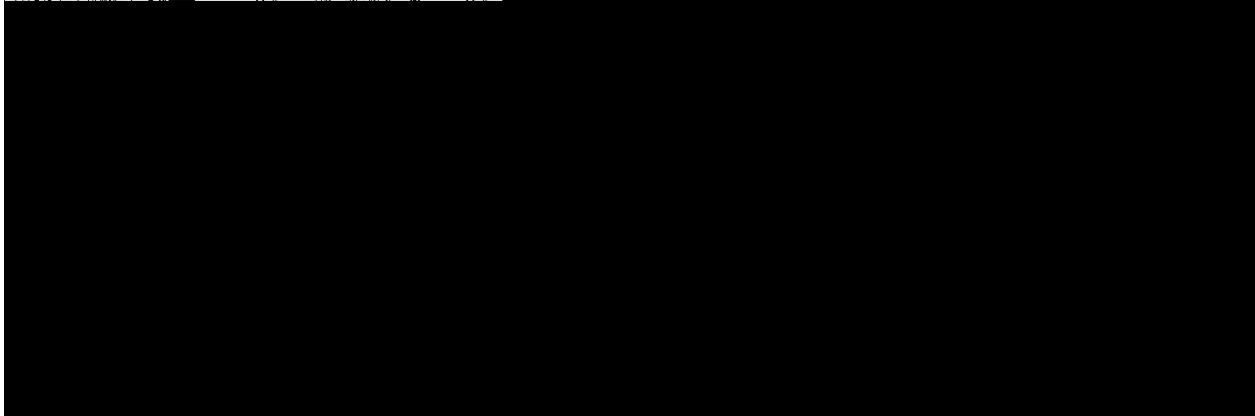
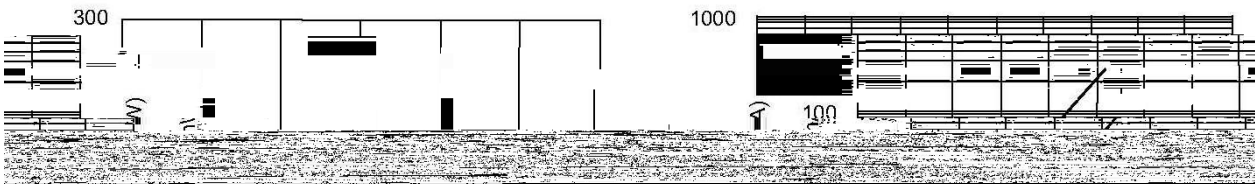
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating			Unit
		SD103AWS	SD103BWS	SD103CWS	
Peak Repetitive Reverse Voltage , Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_R	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	200			mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625			/W
Junction and Storage Temperature Range	T_J, T_{stg}	-65 125			

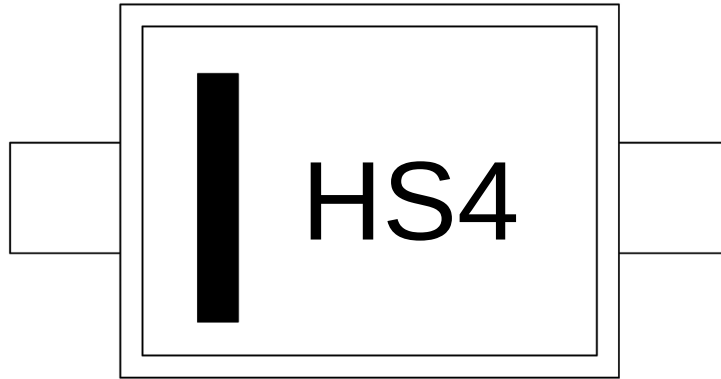
/ Electrical Characteristics(Ta=25)

Parameter		Symbol	Test Conditions	Rating			Unit
				Min	Typ	Max	
Reverse Breakdown Voltage		$V_{(BR)}$	$I_R=10\mu A$	VR			V
Forward Voltage Drop		V_{FM}	$I_F=20mA$			0.37	V
			$I_F=200mA$			0.6	
Instantaneous Reverse Current	SD103AWS	I_{RM}	$V_R=30V$			5.0	μA
	SD103BWS		$V_R=20V$				
	SD103CWS		$V_R=10V$				
Reverse Recovery Time		t_{rr}	$I_F=I_R=200mA$ $I_{rr}=0.1 \times I_R$ $R_L=100\Omega$		10		ns
Total Capacitance		C_T	$V_R=0V$ $f=1.0MHz$		50		pF

/ Electrical Characteristic Curve



/ Marking Instructions



H

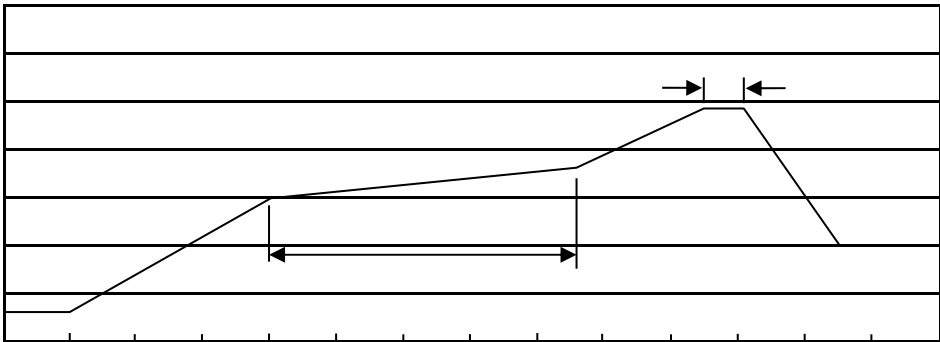
S4

Note:

H: Company Code

S4: Product Type Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-323	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices