/ Descriptions

SOD-123
Schottky Diode in a SOD-123 Plastic Package.

/ Features

Low positive pressure drop. HF Product.

/ Applications

.
Schottky diode.

/ Equivalent Circuit



/ Pinning



PIN1:Cathode PIN2:Anode

/ h_{FE} Classifications & Marking

Model	B5817W	B5818W	B5819W
Marking	HSJ	HSK	HSL

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating			Unit
		B5817W	B5818W	B5819W	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_R	20	30	40	V
RMS Reverse Voltage	$V_{R\ RMS}$	14	21	28	V
Average Rectified Forward Current	I_F	1			A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	25			A
Power Dissipation	P_D	450			mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	220			/W
Junction and Storage Temperature Range	T_J,T_{stg}	-65 to 125			

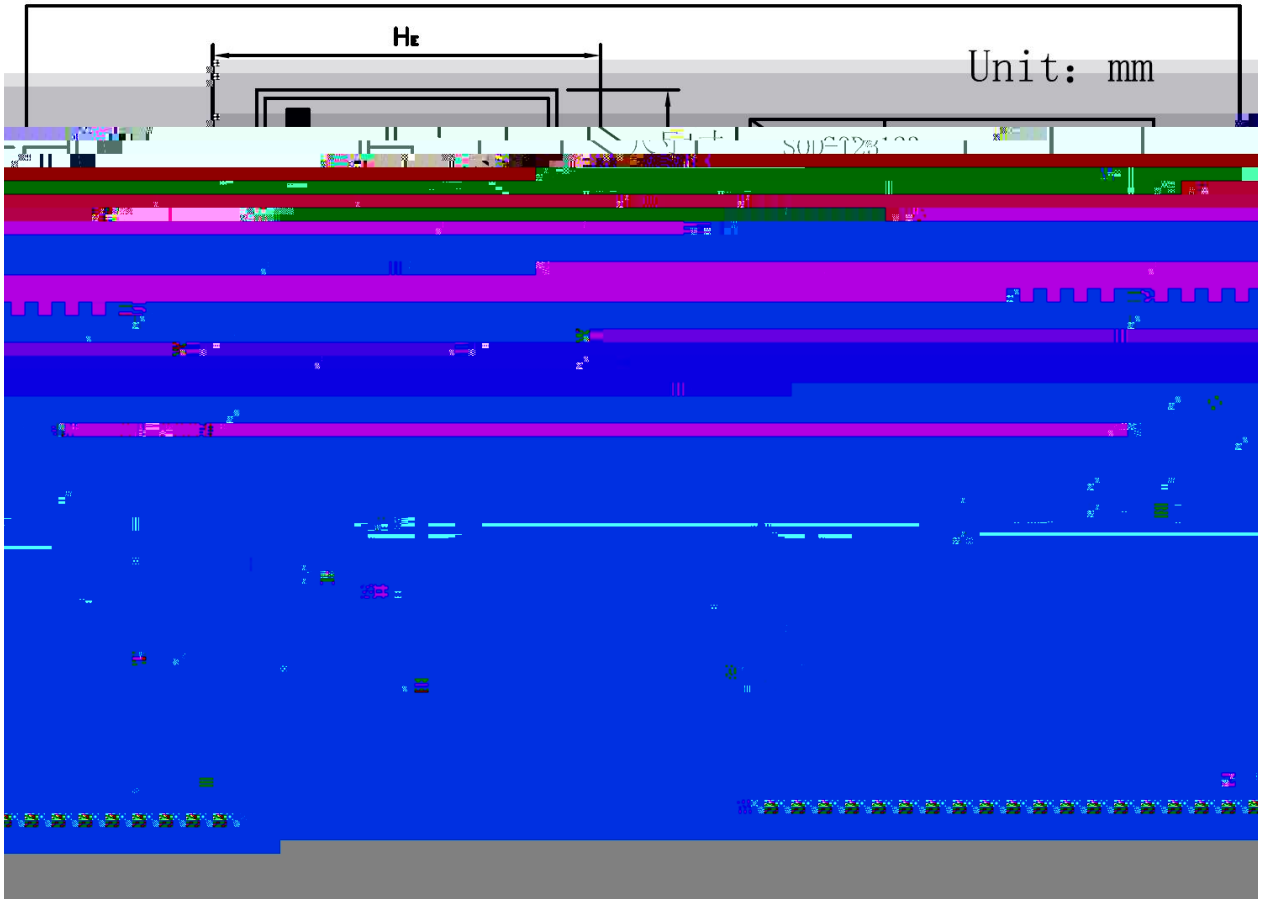
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Rating						Unit
			B5817W		B5818W		B5819W		
			MIN	MAX	MIN	MAX	MIN	MAX	
Reverse breakdown voltage	$V_{(BR)}$	I_R=1mA	20		30		40		V
Forward Voltage	V_F	I_F=0.1A		0.32		0.35		0.40	V
		I_F=1A		0.45		0.55		0.60	
		I_F=3A (t<5us)		0.75		0.875		0.90	
Instantaneous Reverse Current	I_{RM}	V_R=V_{RRM}	1						mA
Junction Capacitance	C_J	V_R=4V f=1.0MHZ	120						pF

/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



H

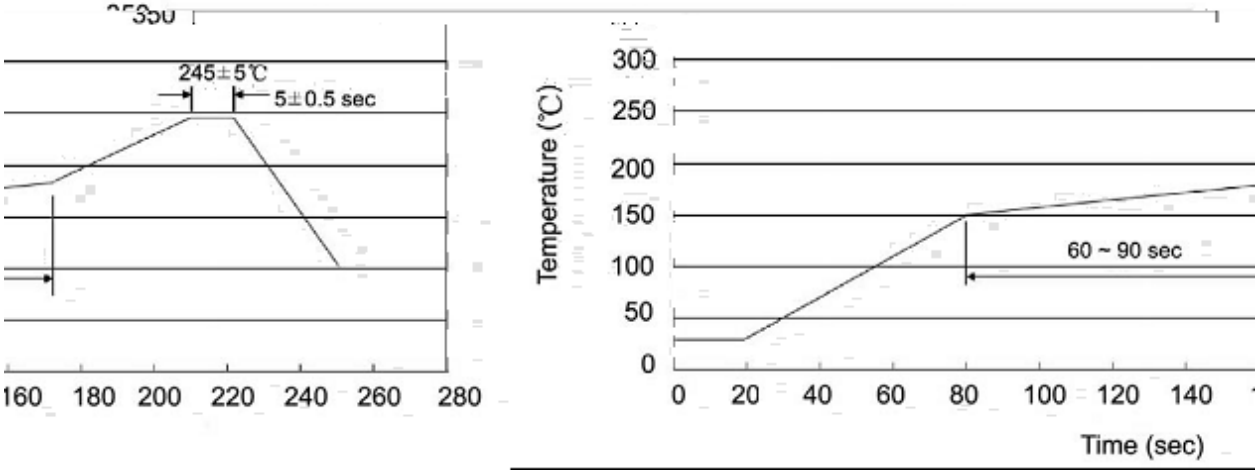
SJ

Note:

H: Company Code.

SJ: Product Type.

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



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. ±5