

Description

The B5817WS-B5819WS is Schottky Diode in a SOD-323 Plastic Package.

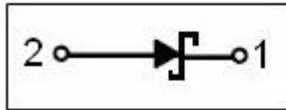
Features

- Low positive pressure drop
- Halogen-free product

Applications

General purpose.

Equivalent Circuit & Pinning



PIN1:Cathode

PIN2:Anode

Marking

Model	B5817WS	B5818WS	B5819WS
Marking	HSJ	HSK	HSL

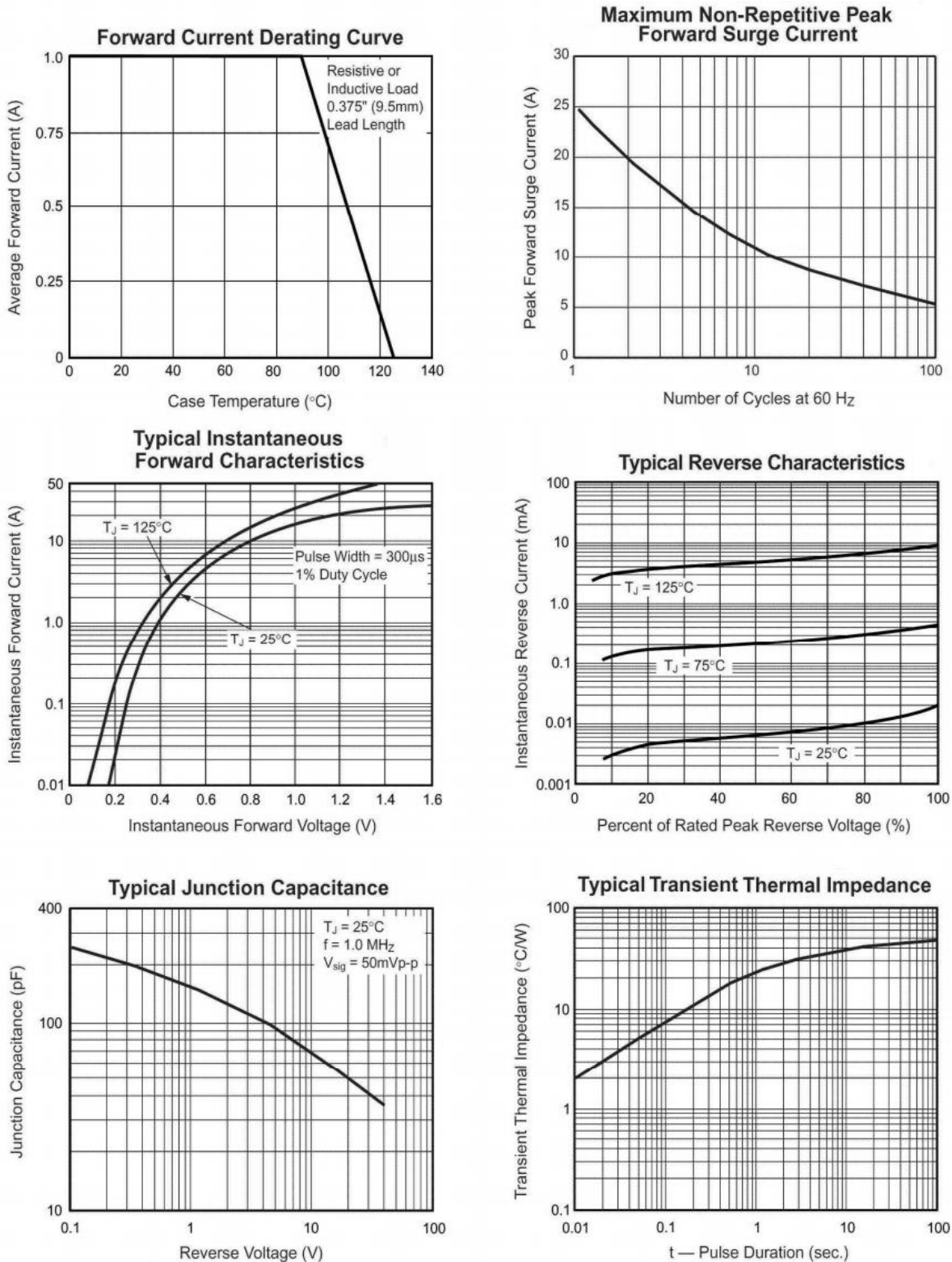
Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating			Unit
		B5817WS	B5818WS	B5819WS	
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	200			mW
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500			°C/W
Junction and Storage Temperature Range	T_J, T_{stg}	-65 to 125			°C

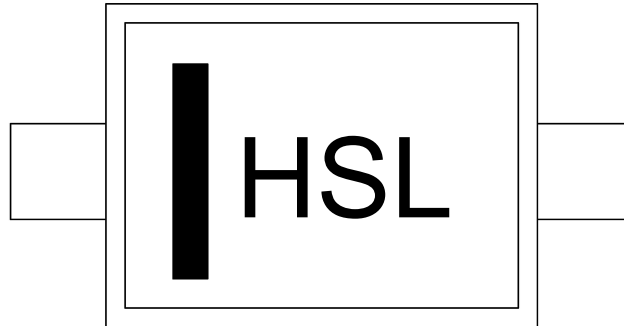
Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Rating		Unit	
			MIN	MAX		
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1mA$	B5817WS	20		V
			B5818WS	30		
			B5819WS	40		
Peak Forward Voltage	V_{FM}	$I_F=0.1A$	B5817WS		0.32	V
			B5818WS		0.35	
			B5819WS		0.4	
		$I_F=1A$	B5817WS		0.45	
			B5818WS		0.55	
			B5819WS		0.60	
		$I_F=3A$ ($t<5\mu s$)	B5817WS		0.75	
			B5818WS		0.875	
			B5819WS		0.90	
Instantaneous Reverse Current	I_{RM}	$V_R=V_{RWM}$	1		mA	
Junction Capacitance	C_J	$V_R=4V$ $f=1.0MHz$	120		pF	

Electrical Characteristic Curve



Marking instructions



Note:

H: Company Code

SJ: Product Type

Packaging SPEC.

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

Package Dimensions

