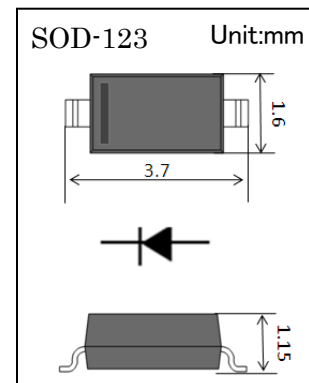


DATA SHEET

B5817W/B5818W/B5819W

- ◇ Low Forward Voltage Schottky Rectifier
- ◇ High Frequency Inverters
- ◇ RoHS Compliant / Green EMC
- ◇ SOD123 Thin SMD Package
- ◇ Matte Tin (Sn) Lead Finish
- ◇ Cathode Band / Device Marking

Device Marking Code	
B5817W	SJ
B5818W	SK
B5819W	SL



Maximum Ratings (Ta = 25 °C)

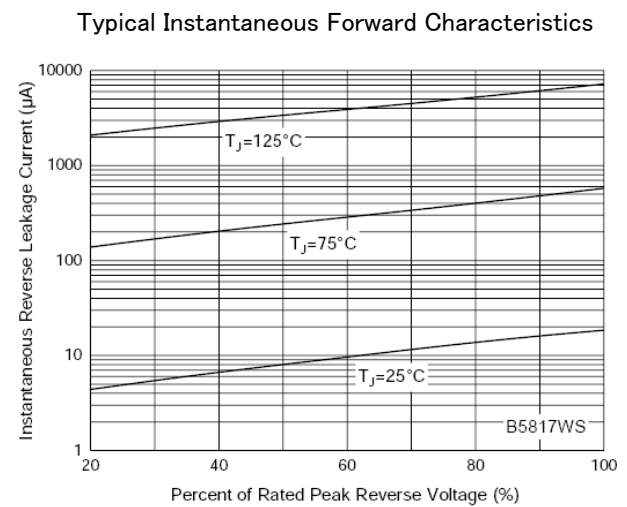
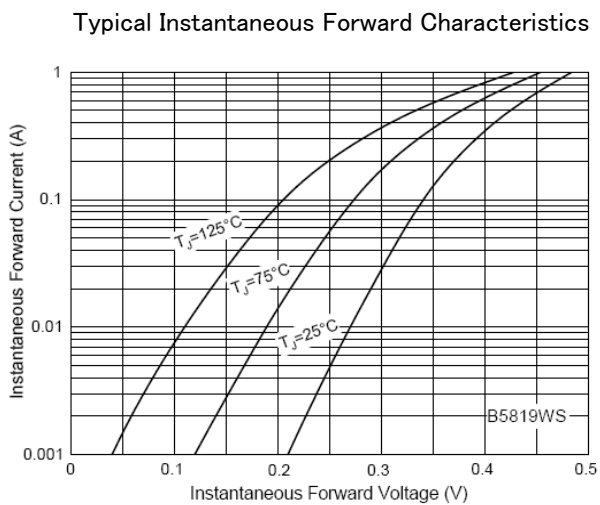
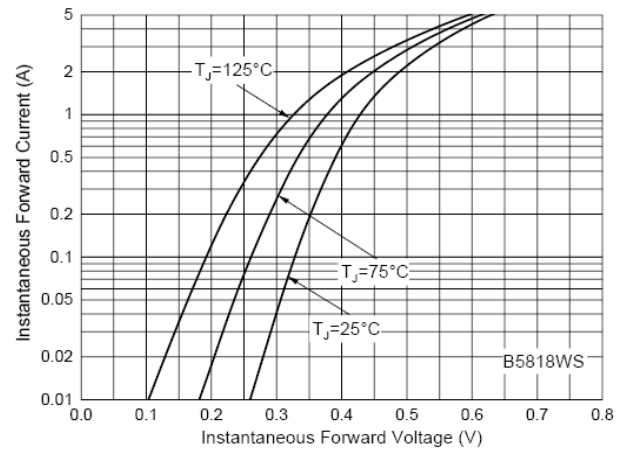
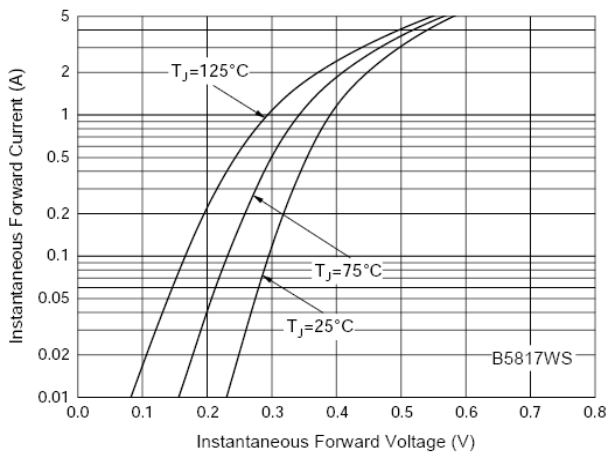
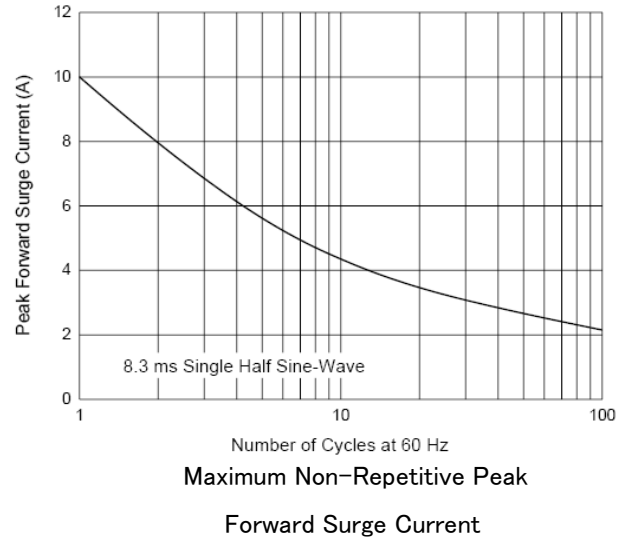
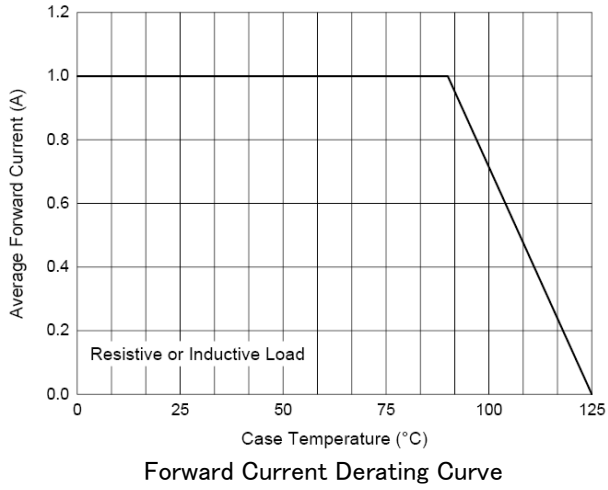
Symbol	Parameter	B5817W	B5818W	B5819W	Units
V_{RM}	Non-Repetitive Peak Reverse Voltage	20	30	40	V
V_{RRM}	Repetitive Peak Reverse Voltage	20	30	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	14	21	28	V
I_O	Average Rectified Output Current	1			A
I_{FSM}	Non-Repetitive Peak Forward Surge Current @8.3mS	10			A
P_D	Power Dissipation	500			mW
T_J	Junction Temperature	125			°C
T_{STG}	Storage Temperature	-55 to +125			°C

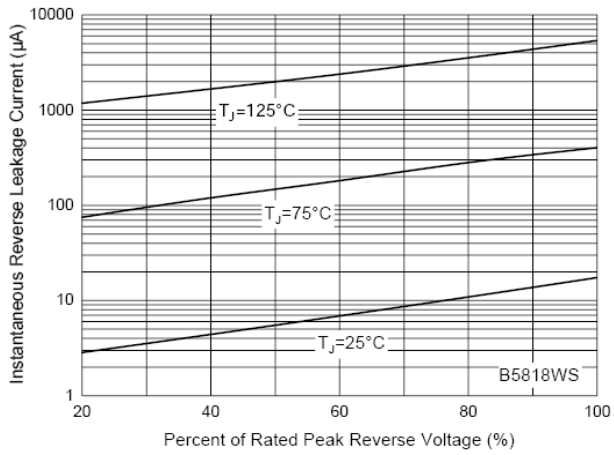
*1 8.3 ms single half sine-wave

Electrical Characteristics (Ta = 25 °C)

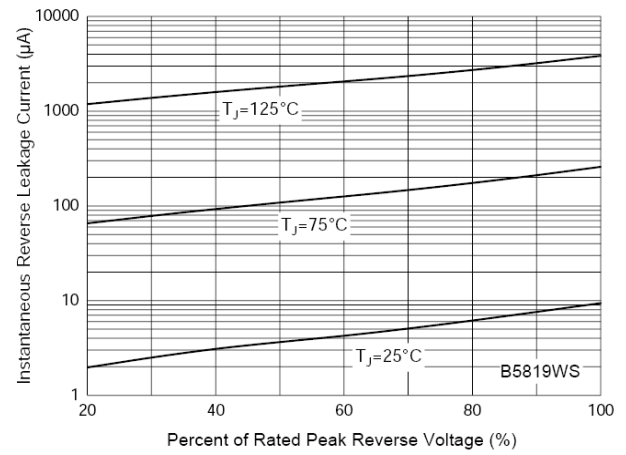
Symbol	Parameter	Test Conditions		Min	Typ	Max	Units
V_F	Forward Voltage	$I_F=1A$	B5817W			0.45	V
			B5818W			0.55	
			B5819W			0.60	
		$I_F=3A$	B5817W			0.75	V
			B5818W			0.875	
			B5819W			0.90	
I_R	Reverse Current	$V_R=20V$	B5817W			1	mA
		$V_R=30V$	B5818W			1	
		$V_R=40V$	B5819W			1	
C_J	Typical Junction Capacitance	$V_R=4V, f=1MHz$			120		pF

Typical Characteristics





Typical Reverse Leakage Characteristics

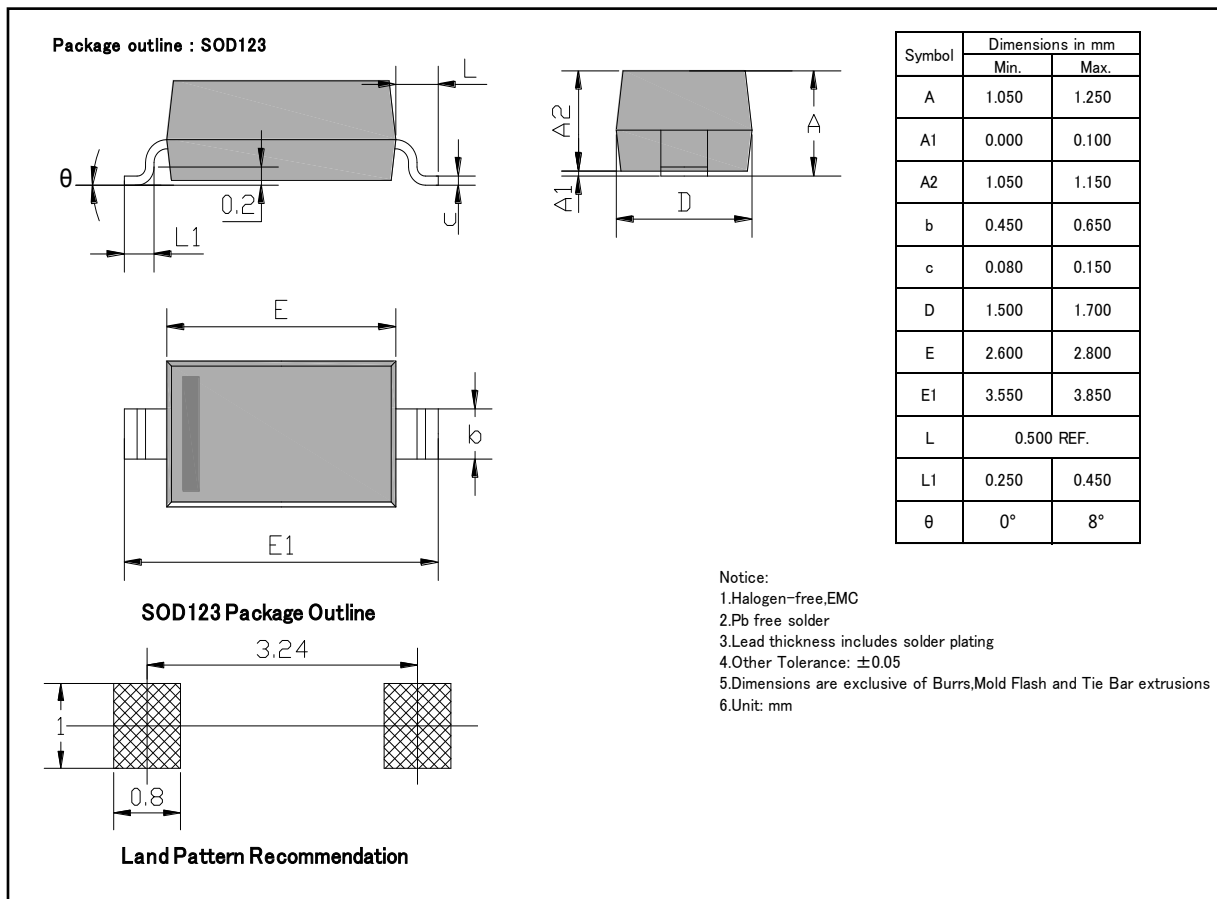


Typical Reverse Leakage Characteristics

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
B581xW	SOD123	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive	

Package Dimensions



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