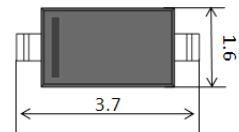


- ◇ Low Forward Voltage Schottky Rectifier
- ◇ High Frequency Inverters
- ◇ RoHS Compliant / Green EMC
- ◇ SOD123 Thin SMD Package
- ◇ Matte Tin (Sn) Lead Finish
- ◇ Cathode Band / Device Marking

Device Marking Code	
K1N5817HW-7-F	SJ
K1N5818HW-7-F	SK
K1N5819HW-7-F	SL

SOD-123 Unit:mm



Maximum Ratings (Ta = 25 °C)

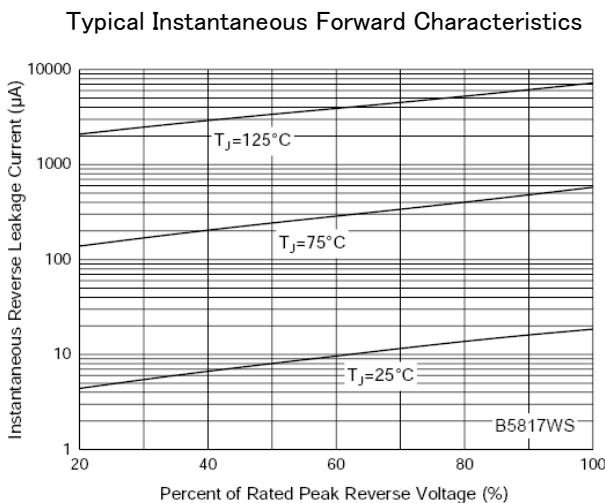
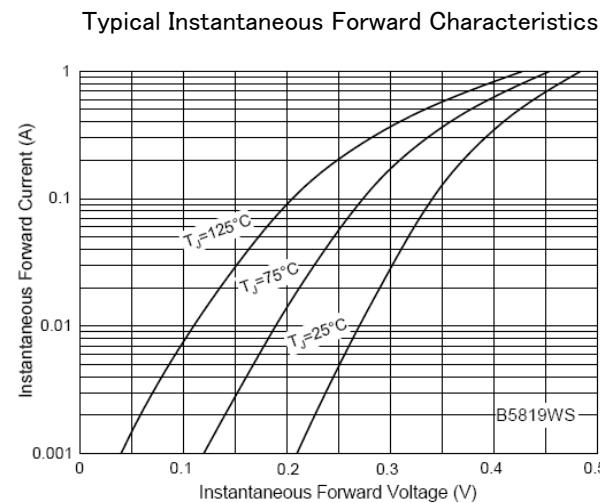
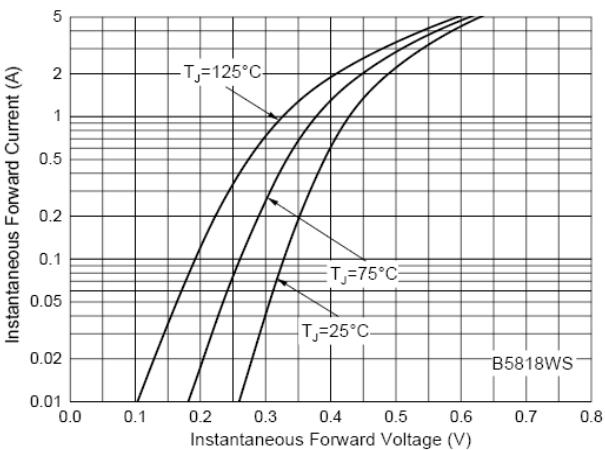
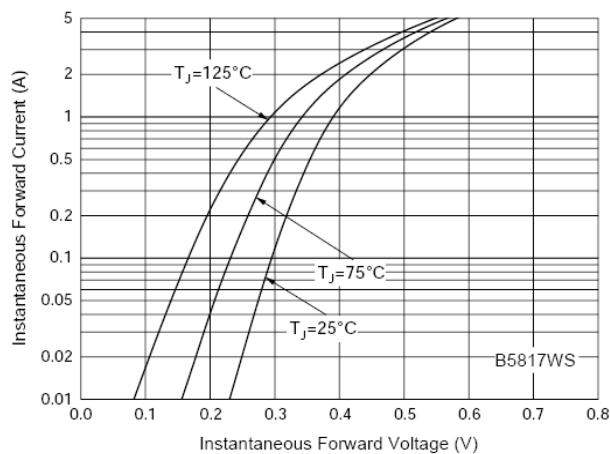
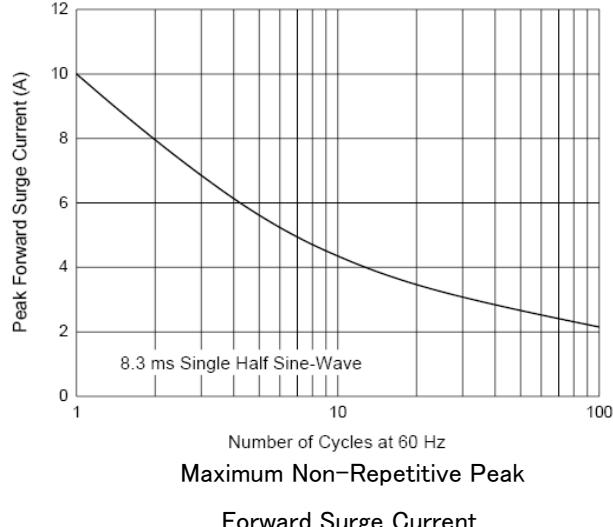
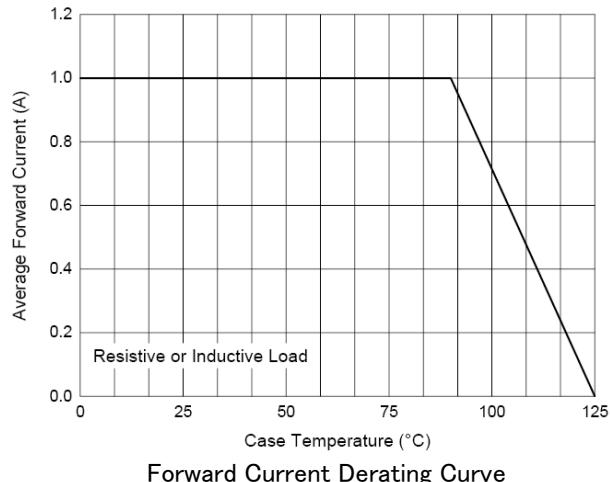
Symbol	Parameter	K1N5817HW	K1N5818HW	K1N5819HW	Units
V _{RM}	Non-Repetitive Peak Reverse Voltage	20	30	40	V
V _{RRM}	Repetitive Peak Reverse Voltage	20	30	40	V
V _{R(RMS)}	RMS Reverse Voltage	14	21	28	V
I _O	Average Rectified Output Current		1		A
I _{FSM}	Non-Repetitive Peak Forward Surge Current @8.3mS		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)

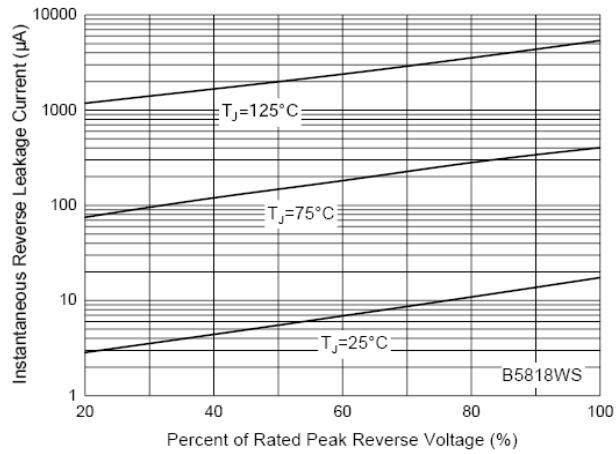
Symbol	Parameter	Test Conditions			Min	Typ	Max	Units	
V _F	Forward Voltage	I _F =1A	K1N5817HW				0.45	V	
			K1N5818HW				0.55		
			K1N5819HW				0.60		
	Reverse Current	I _F =3A	K1N5817HW				0.75	V	
			K1N5818HW				0.875		
			K1N5819HW				0.90		
I _R	Reverse Current		V _R =20V	K1N5817HW			1	mA	
			V _R =30V	K1N5818HW			1		
			V _R =40V	K1N5819HW			1		
C _J	Typical Junction Capacitance	V _R =4V,f=1MHZ			120			pF	

Typical Characteristics

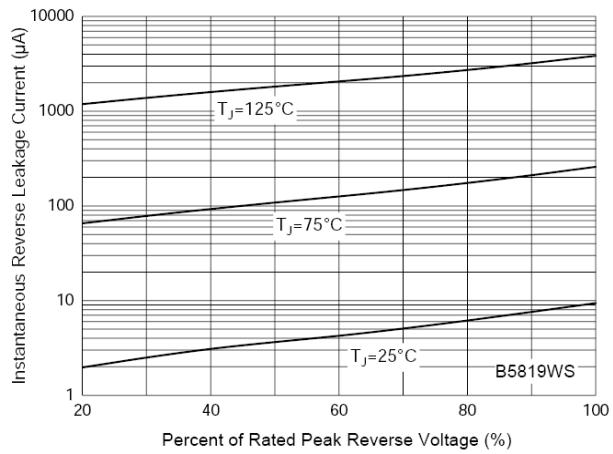


Typical Instantaneous Forward Characteristics

Typical Reverse Leakage Characteristics



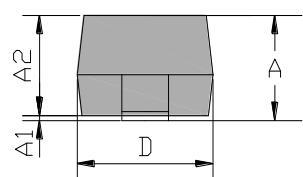
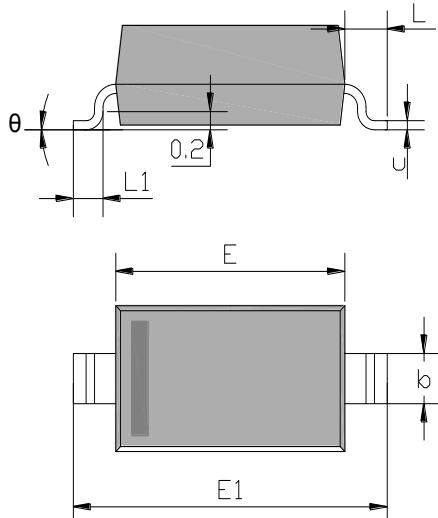
Typical Reverse Leakage Characteristics



Typical Reverse Leakage Characteristics

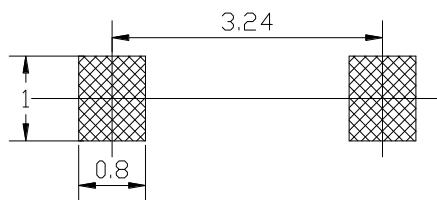
Package Dimensions

Package outline : SOD123



Symbol	Dimensions in mm	
	Min.	Max.
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500 REF.	
L1	0.250	0.450
θ	0°	8°

SOD123 Package Outline



Land Pattern Recommendation

Notice:

- 1.Halogen-free,EMC
- 2.Pb free solder
- 3.Lead thickness includes solder plating
- 4.Other Tolerance: ± 0.05
- 5.Dimensions are exclusive of Burrs,Mold Flash and Tie Bar extrusions
- 6.Unit: mm