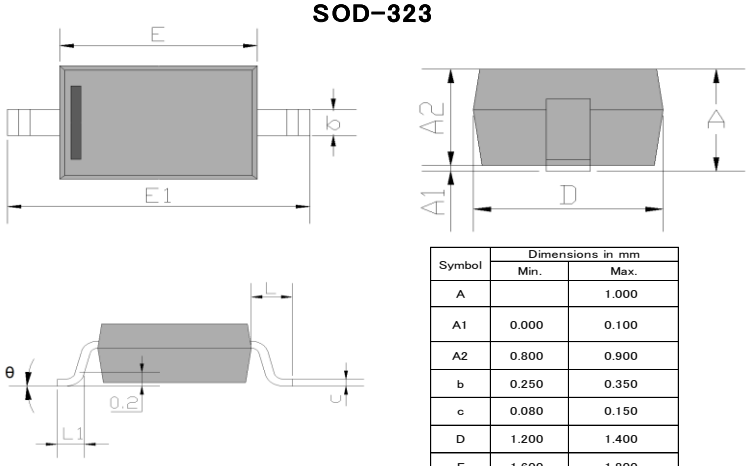
B5819WS

Schottky Diode

SOD-323



Symbol	Dimensions in mm	
	Min.	Max.
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475 REF.	
L1	0.250	0.400
θ	0°	8°

Features

Low Forward Voltage Schottky Rectifier
High Frequency Inverters
Rohs Compliant / Green Emc
SOD323 Thin Smd Package
Matte Tin (Sn) Lead Finish
Cathode Band / Device Marking
AEC-Q101 Compliant

Maximum Ratings (Ta = 25 ℃)

Symbol	Parameter	B5819WX-AEC	Units
V_{RM}	Non-Repetitive Peak Reverse Voltage	40	V
V_{RRM}	Repetitive Peak Reverse Voltage	40	V
$V_{R(RMS)}$	RMS Reverse Voltage	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	200	mW
T_J	Junction Temperature	125	℃
T_{STG}	Storage Temperature	-55 to +125	℃

*1 8.3 ms single half sine-wave

Electrical Characteristics (Ta = 25 ℃)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Units
V_F	Forward Voltage	I_F=1A			0.60	V
		I_F=3A			0.90	V
I_R	Reverse Current	V_R=40V			1	mA
		V_R=40V,Tj=100℃			10	
C_J	Typical Junction Capacitance	V_R=10V,1.0MH$_Z$			32	pF

Rating and Characteristic Curves (TA = 25°C Unless otherwise noted)

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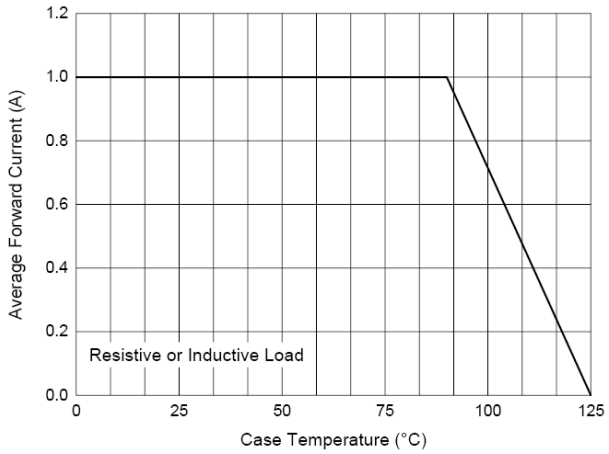
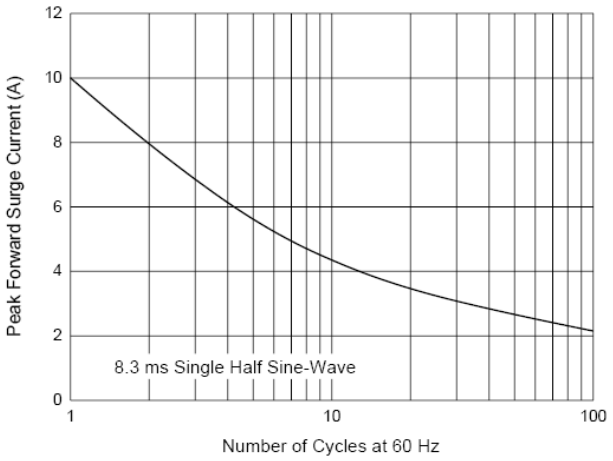
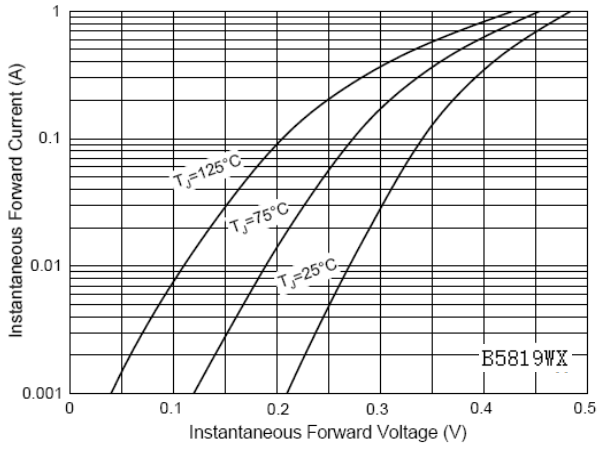


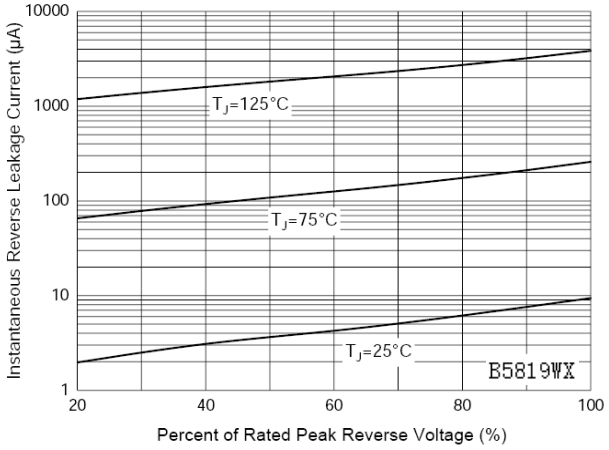
Forward Current Derating Curve



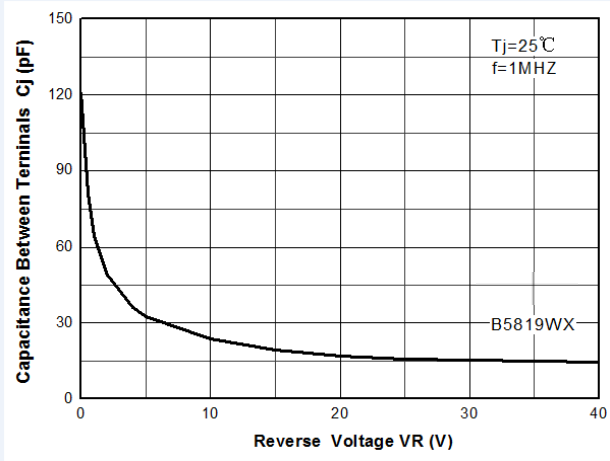
Maximum Non-Repetitive Peak Forward Surge Current



Typical Instantaneous Forward Characteristics



Typical Reverse Leakage Characteristics



Capacitance Characteristics