

Features

- Halogen Free. "Green" Device (Note 1)
- Guard Ring Protection
- Low Forward Voltage Drop
- For Use In Low Voltage, High Frequency Inverters
- High Surge Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -65°C to +125°C
- Storage Temperature Range: -65°C to +150°C
- Maximum Thermal Resistance: 500°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B5817WS	SJ	20V	14V	20V
B5818WS	SK	30V	21V	30V
B5819WS	SL	40V	28V	40V

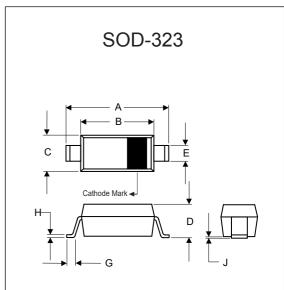
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	Tc = 90°C
Peak Forward Surge Current	I _{FSM}	10A	8.3ms Half Sine
Power Dissipation	P_{D}	250mW	
Maximum B5817WS Instantaneous B5818WS Forward B5819WS	V _F	0.45V 0.55V 0.60V	I _{FM} =1.0A; T _J = 25°C (Note 2)
Voltage		0.75V 0.875V 0.90V	I _{FM} =3.0A; T _J = 25°C (Note 2)
Reverse Leakage			
Current B5817WS	I _R	200μA(Max) 30μA(Typ)	$V_R = 20V, T_A = 25^{\circ}C$
B5818WS		40μA(Max) 4μA(Typ)	$V_R = 30V, T_A = 25^{\circ}C$
B5819WS		40μA(Max) 7μA(Typ)	V _R = 40V, T _A = 25°C
Typical Junction			
Capacitance B5817WS	С	80pF 50pF	1.0MHz , V _R =4.0V 1.0MHz , V _R =10V
B5818WS~B5819WS		48pF 32pF	1.0MHz , V _R =4.0V 1.0MHz , V _R =10V

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

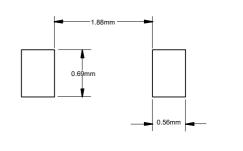
Note: 2. Pulse Test: Pulse Width 300usec, Duty Cycle 2%

1 Amp Schottky Barrier Rectifier 20 - 40 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
ווועו	MIN	MAX	MIN	MAX	NOTE	
Α	0.090	0.107	2.30	2.70		
В	0.063	0.071	1.60	1.80		
С	0.045	0.053	1.15	1.35		
D	0.031	0.045	0.80	1.15		
E	0.010	0.016	0.25	0.40		
G	0.004	0.018	0.10	0.45		
Н	0.004	0.010	0.10	0.25		
J		0.006		0.15		

Suggested Solder Pad Layout





Curve Characteristics

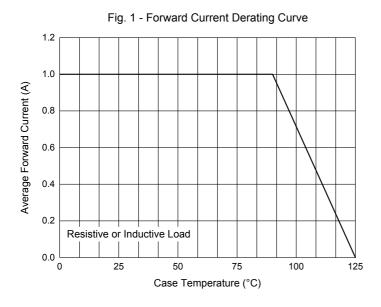


Fig. 3 - Typical Instantaneous Forward Characteristics

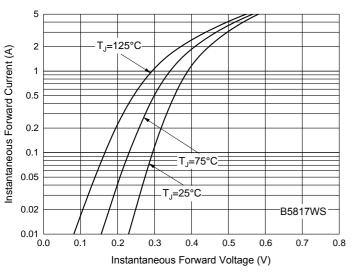
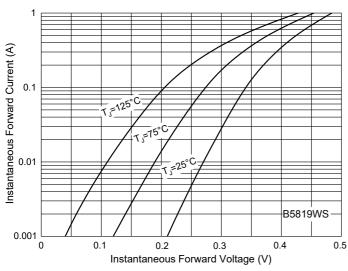


Fig. 5 - Typical Instantaneous Forward Characteristics



Current 12

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

10 Peak Forward Surge Current (A) 8.3 ms Single Half Sine-Wave 0 100 Number of Cycles at 60 Hz

Fig. 4 - Typical Instantaneous Forward Characteristics

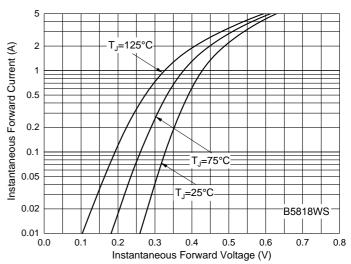
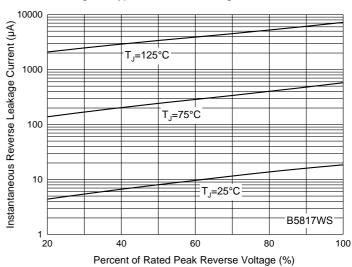


Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

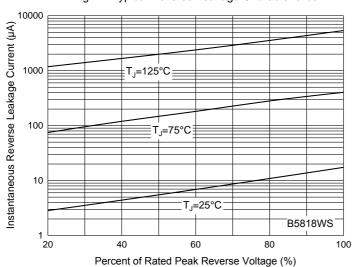
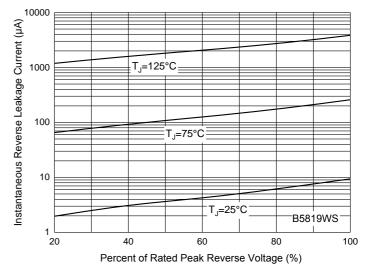


Fig. 8 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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