

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

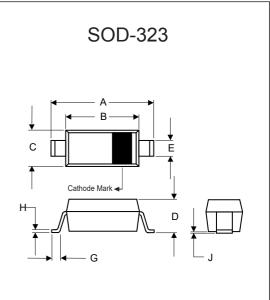
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	200µА(Мах) 30µА(Тур)	V _R = 20V, T _A = 25°C
B5818WS		40µА(Мах) 4µА(Тур)	V _R = 30V, T _A = 25°C
B5819WS		40µА(Max) 7µА(Тур)	V _R = 40V, T _A = 25°C
Typical Junction			
Capacitance B5817WS	C_{J}	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.

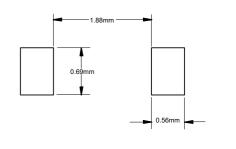
Note: 2. Pulse Test: Pulse Width 300usec, Duty Cycle 2%

1 Amp Schottky Barrier Rectifier 20 - 40 Volts



DIMENSIONS								
DIM	INCHES		MM		NOTE			
	MIN	MAX	MIN	MAX	NOTE			
А	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

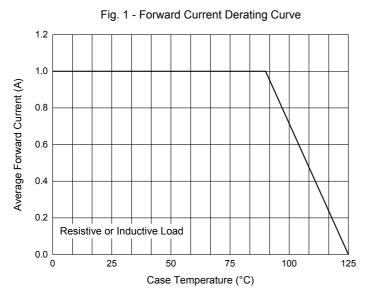


Fig. 3 - Typical Instantaneous Forward Characteristics

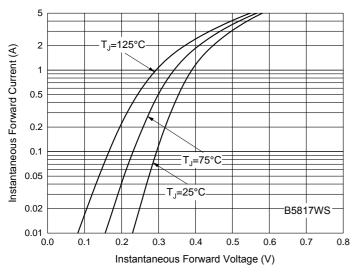
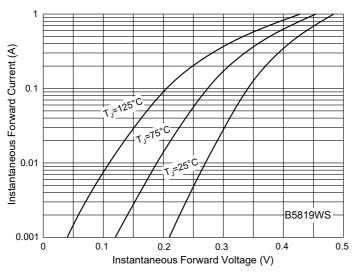


Fig. 5 - Typical Instantaneous Forward Characteristics



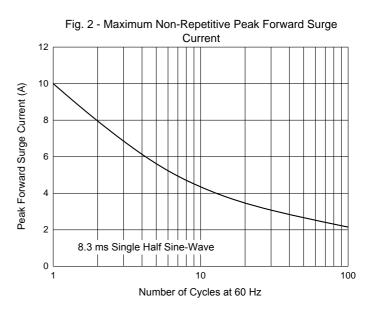


Fig. 4 - Typical Instantaneous Forward Characteristics

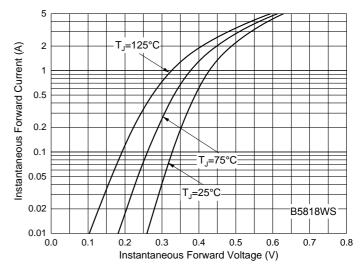
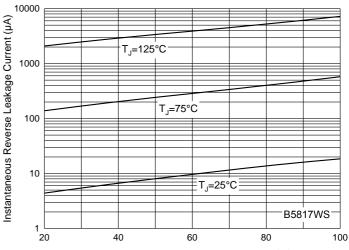


Fig. 6 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)



Curve Characteristics

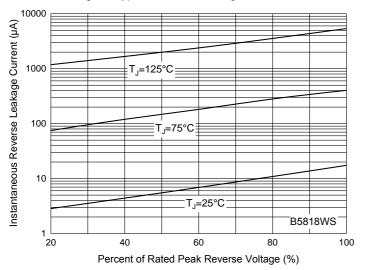


Fig. 7 - Typical Reverse Leakage Characteristics

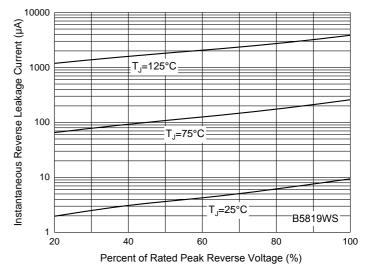


Fig. 8 - Typical Reverse Leakage Characteristics



Ordering Information

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

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