

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Forward Voltage Drop
- 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: -55°C to +125°C
- Storage Temperature Range: -55°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
B5817WSHE3	SJ	20V	14V	20V
B5818WSHE3	SK	30V	21V	30V
B5819WSHE3	SL	40V	28V	40V

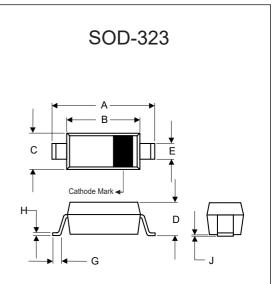
Electrical Characteristics @ 25°C Unless Otherwise Specified

I _{F(AV)}	1.0A	Tc = 90°C
I _{FSM}	10A	8.3ms Half Sine
P_D	250mW	
V _F		
	0.45V 0.75V	I _{FM} =1.0A; T _J = 25°C I _{FM} =3.0A; T _J = 25°C
	0.55V 0.875V	I _{FM} =1.0A; T _J = 25°C I _{FM} =3.0A; T _J = 25°C
	0.60V 0.90V	I _{FM} =1.0A; T _J = 25°C I _{FM} =3.0A; T _J = 25°C
I _R	200µА(Мах) 30µА(Тур)	V _R = 20V, T _A = 25°C
	40µА(Мах) 4µА(Тур)	V _R = 30V, T _A = 25°C
	40µА(Мах) 7µА(Тур)	V _R = 40V, T _A = 25°C
CJ	120pF	Measured at 1.0MHz , V _R =4.0V
	I _{FSM} P _D V _F	I(x) 10A I _{FSM} 10A P _D 250mW V _F 0.45V 0.75V 0.75V 0.55V 0.875V 0.60V 0.90V I _R 200µA(Max) 40µA(Max) 40µA(Max) 40µA(Max) 7µA(Typ)

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

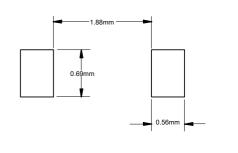
2. Pulse Test: Pulse Width 300usec, Duty Cycle 2%

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

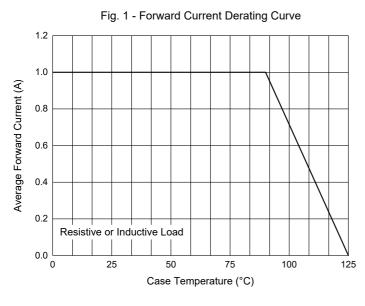


Fig. 3 - Typical Instantaneous Forward Characteristics

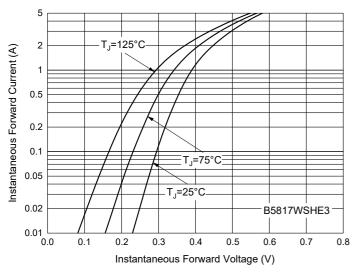
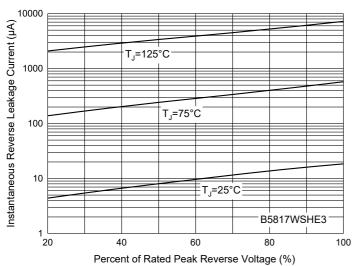


Fig. 5 - Typical Reverse Leakage Characteristics



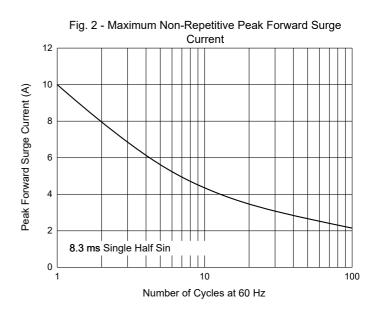


Fig. 4 - Typical Instantaneous Forward Characteristics

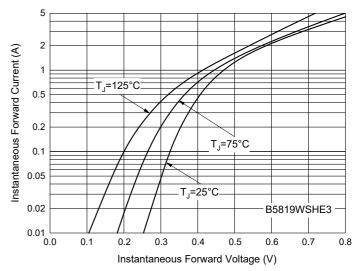
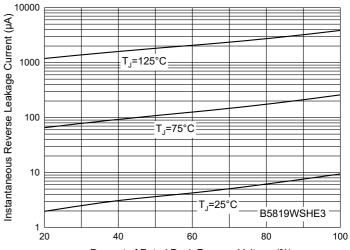


Fig. 6 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)



Ordering Information

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

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