

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Guard Ring Protection
- Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters
- Power Dissipation:250mW
- 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
B5817WHE3	SJ	20V	14V	20V
B5818WHE3	SK	30V	21V	30V
B5819WHE3	SL	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

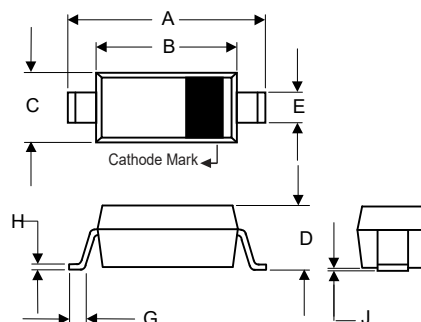
Average Forward Current	$I_{F(AV)}$	1.0A	$T_C=90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	10A	8.3ms Half Sine
Maximum Instantaneous Forward Voltage	V_F	0.45V	$I_{FM}=1.0A;$ $T_J=25^\circ\text{C}$ (Note 2)
		0.55V	
		0.60V	$I_{FM}=3A;$ $T_J=25^\circ\text{C}$ (Note 2)
		0.75V	
B5817WHE3	0.875V		
B5818WHE3	0.90V		
B5819WHE3			
Reverse leakage Current	I_R	200 μA (Max) 30 μA (Typ.)	$V_R=20V, T_A=25^\circ\text{C}$
		40 μA (Max) 4 μA (Typ.)	$V_R=30V, T_A=25^\circ\text{C}$
		40 μA (Max) 7 μA (Typ.)	$V_R=40V, T_A=25^\circ\text{C}$
Typical Junction Capacitance	C_J	120pF	Measured at 1.0MHz, $V_R=4.0V$

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

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

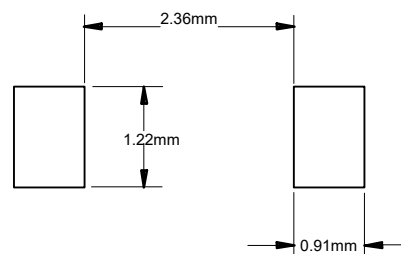
1 Amp Schottky Barrier Rectifier 20 - 40 Volts

SOD-123



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.140	0.152	3.55	3.85	
B	0.100	0.112	2.55	2.85	
C	0.055	0.071	1.40	1.80	
D	----	0.053	----	1.35	
E	0.018	0.026	0.45	0.65	
G	0.006	----	0.15	----	
H	----	0.010	----	0.25	
J	----	0.006	----	0.15	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Characteristics

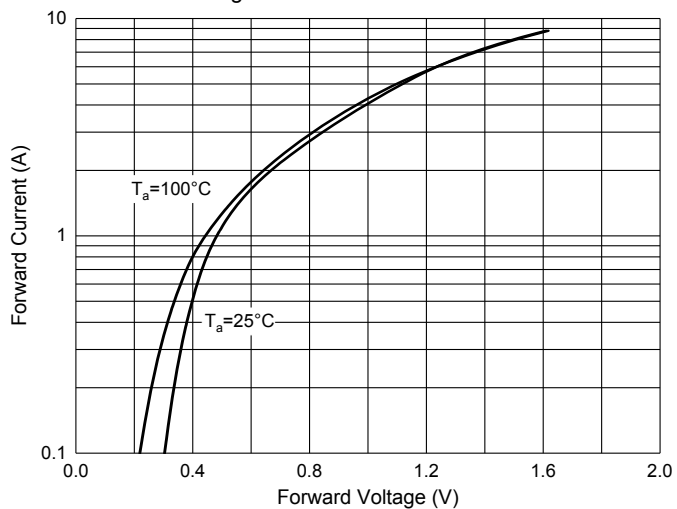


Fig. 2 - Reverse Characteristics

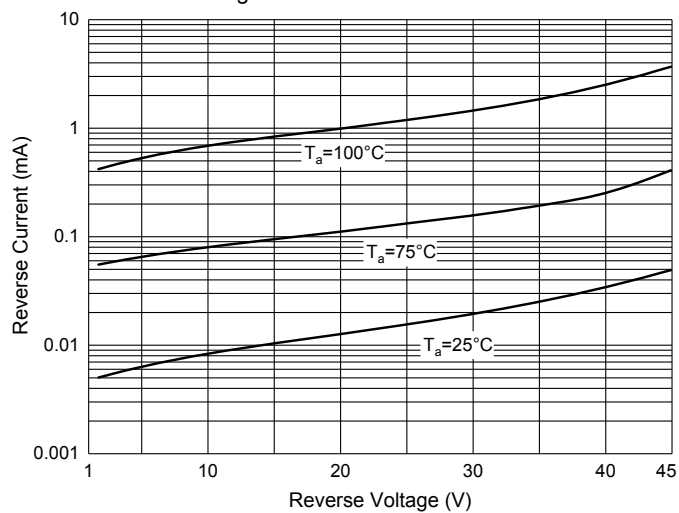
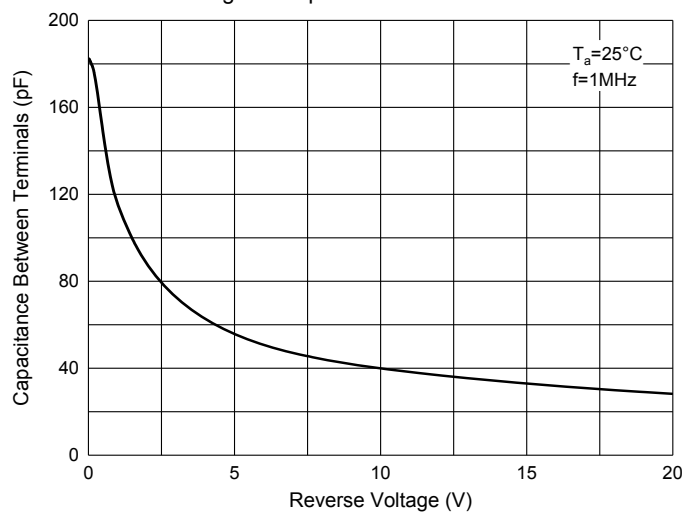


Fig. 3 - Capacitance Characteristics



Ordering Information

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

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