

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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

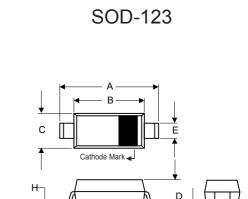
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B5817W	SJ	20V	14V	20V
B5818W	SK	30V	21V	30V
B5819W	SL	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _C =90°C
Peak Forward Surge Current	I _{FSM}	10A	8.3ms Half Sine
Maximum Instantaneous Forward Voltage B5817W	V _F	0.45V 0.55V 0.60V	I _{FM} =1.0A; T _J =25°C (Note 1)
B5818W B5819W		0.75V 0.875V 0.90V	I _{FM} =3A; T _J =25°C (Note 1)
Reverse leakage Current B5817W B5818W B5819W	I _R	200μA(Max) 30μA(Typ.) 40μA(Max) 4μA(Typ.) 40μA(Max) 7μA(Typ.)	V _R =20V, T _A =25°C V _R =30V, T _A =25°C V _R =40V, T _A =25°C
Typical Junction Capacitance	CJ	120pF	Measured at 1.0MHz, V _R =4.0V

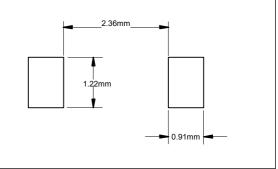
Notes: 1. Pulse Test: Pulse Width 300usec, Duty Cycle 2%

1 Amp Schottky Barrier Rectifier 20 - 40 Volts



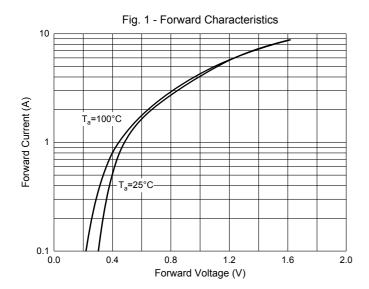
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.140	0.152	3.55	3.85		
В	0.100	0.112	2.55	2.85		
С	0.055	0.071	1.40	1.80		
D		0.053		1.35		
Е	0.018	0.026	0.45	0.65		
G	0.006		0.15			
Н		0.010		0.25		
J		0.006		0.15		

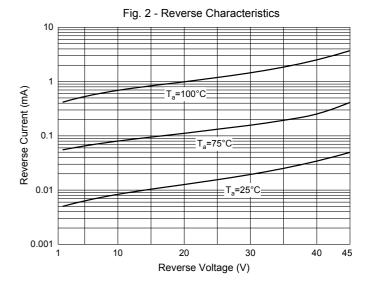
Suggested Solder Pad Layout

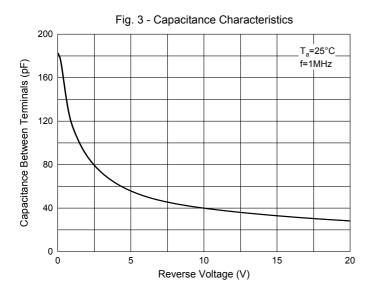




Curve Characteristics









Ordering Information

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

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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