



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

# B5817WS Thru B5819WS

## **Features**

- 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/ŘoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)

## **Maximum Ratings**

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

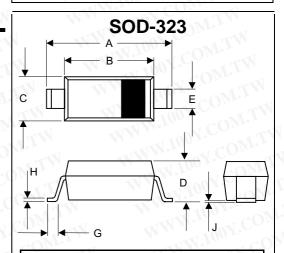
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
B5817WS	SJ	20V	14V 🕥	20V
B5818WS	SK	30V	21V	30V
B5819WS	SL	40V	28V	40V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

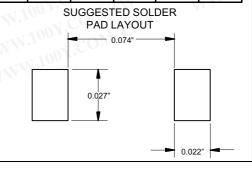
Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>c</sub> = 90°C
Peak Forward Surge Current	I <sub>FSM</sub>	10A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V <sub>E</sub> V.3	0.45V 0.55V 0.60V	$I_{FM} = 1.0A;$ $T_J = 25^{\circ}C$ (Note 1)
B5817WS B5818WS B5819WS	VF	0.75V 0.875V 0.90V	$I_{FM} = 3A;$ $T_J = 25^{\circ}\mathbb{C} \text{ (Note 1)}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	1mA	T <sub>A</sub> = 25°C
Typical junction capacitance	CJ	120pF	Measured at 1.0MHz , V <sub>R</sub> =4.0V

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

## 1 Amp Schottky Barrier Rectifier 20 - 40 Volts



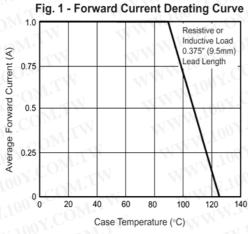
					$00 \times .$
DIM	INC	HES	N	1M	NOTE
	MIN	MAX	MIN	MAX	100
Α	.090	.107	2.30	2.70	1007
В	.063	.071	1.60	1.80	1.2
С	.045	.053	1.15	1.35	N.100
D	.031	.045	0.80	1.15	- 10
Ē	.010	.016	0.25	0.40	More
G	.004	.018	0.10	0.45	-TXV.1
Н	.004	.010	0.10	0.25	M
NI		.006	-37	0.15	TIVIN



## B5817WS-B5819WS

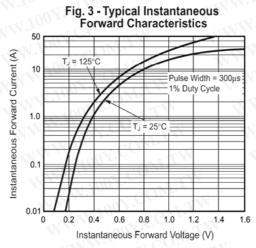


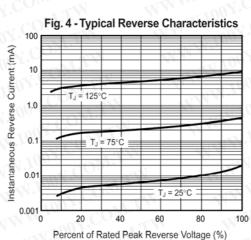
### **Typical Characteristics**

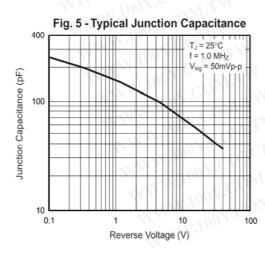


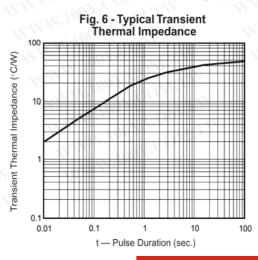
12 Current (A Surge Forward Peak 2

Fig. 2 - Maximum Non-Repetitive Peak **Forward Surge Current** Number of Cycles at 60 Hz









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### Ordering Information:

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

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