



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# 1N5817 **THRU** 1N5819

### **Features**

- **Guard Ring Protection**
- Low Forward Voltage
- Low Power Loss For High Efficiency
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1 Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

## Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +125°C
- Maximum Thermal Resistance; 80°C/W Junction To Ambient

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5817	20V	14V	20V
1N5818	30V	21V	30V
1N5819	40V	28V	40V

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

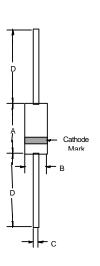
liecti icai characteristics @ 25 c oniess otherwise specified					
Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>A</sub> = 90°C		
Peak Forward Surge Current	I <sub>FSM</sub>	25A	8.3ms, half sine		
Maximum Instantaneous Forward Voltage 1N5817 1N5818 1N5819	V <sub>F</sub>	.45V .55V .60V	$I_{FM} = 1.0A;$ $T_J = 25^{\circ}C^{*}$		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	1.0mA 10mA	$T_{J} = 25^{\circ}C$ $T_{J} = 100^{\circ}C$		
Typical Junction Capacitance	C <sub>j</sub>	110pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V		

<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 2%

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

## 1 Amp Schottky **Barrier Rectifier** 20 to 40 Volts

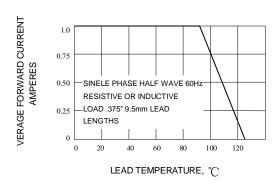
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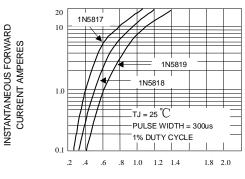


	DIMENSIONS							
	INCH	HES	MM					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	.166	.205	4.10	5.20				
В	.080	.107	2.00	2.70				
С	.028	.034	.70	.90				









INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 1-FORWARD CURRENT DERATING CURVEE

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

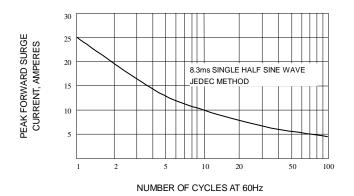


Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT

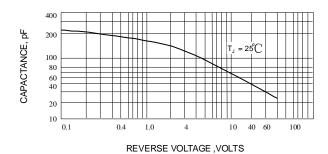


Fig. 4-TYPICAL JUNCTION CAPACITANCE



### Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 5Kpcs/Reel	
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box	
Part Number-BP	Bulk: 50Kpcs/Carton	

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