



Micro Commercial Components Corp.

Complete Discrete Semiconductor Solutions

Product Catalog > Diodes > Schottky Barrier Rectifiers >	
Part Number	1N5819
product family	SCHOTTKY BARRIER RECTIFIERS
package type	DO-41
VRM(PRV)	40V
Ifsm	25A
IF(AV)	1.0A
@Vf	0.60V
@If	1.0A
Trr	
IR	1.0mA
@VR	40V
Package Qty	Bulk: 1K/Box, 50K/Ctn ; Tape : 5K/Reel, 20K/Ctn; T/B: 5K/ Ammo Box, 50K/Ctn.
This product is listed under the following categories where you may find similar products: Diodes Schottky Barrier Rectifiers	



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1N5817 THRU 1N5819

Features

- Guard Ring Protection
- Low Forward Voltage
- Low Power Loss For High Efficiency
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

1 Amp Schottky Barrier Rectifier 20 to 40 Volts

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

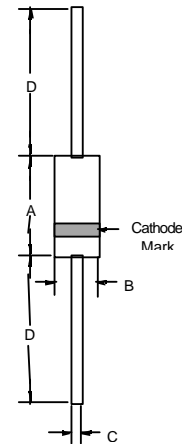
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	$T_A = 90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	25A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1N5817 .45V	$I_{FM} = 1.0A;$ $T_J = 25^\circ\text{C}^*$
		1N5818 .55V	
		1N5819 .60V	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	1.0mA 10mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$
Typical Junction Capacitance	C_j	110pF	Measured at 1.0MHz, $V_R=4.0V$

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

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

DO-41



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.166	.205	4.10	5.20	
B	.080	.107	2.00	2.70	
C	.028	.034	.70	.90	
D	1.000	---	25.40	---	



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel; 5Kpcs/Reel
(Part Number)-AP	Ammo Packing;5Kpcs/AmmoBox
(Part Number)-BP	Bulk;1Kpcs/Box

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