

Micro Commercial Components

Guard Ring Protection

Maximum Ratings

MCC

Part Number

1N5817

1N5818

1N5819

Current

Current Maximum Instantaneous Forward Voltage

Maximum DC

Voltage

Reverse Current At

Rated DC Blocking

Typical Reverse

Typical Junction

Capacitance

Recovery Time

Average Forward

Peak Forward Surge

1N5817

1N5818

1N5819

Low Power Loss For High Efficiency

Epoxy meets UL 94 V-0 flammability rating

Operating Temperature: -55°C to +125°C Storage Temperature: -55°C to +125°C

Maximum

Recurrent

Peak Reverse

Voltage

20V

30V

40V

I_{F(AV)}

IFSM

VF

 I_R

Trr

Ci

Low Forward Voltage

Features



Halogen free available upon request by adding suffix "-HF"

Moisture Sensitivity Level 1 Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

Maximum Thermal Resistance; 80°C/W Junction To Ambient

Maximum

RMS Voltage

14V

21V

28V

1.0A

25A

.45V

.55V

.60V

1.0mA

10mA

10ns

110pF

Blocking

Voltage

20V

30V

40V

 $T_A = 90^{\circ}C$

 $I_{FM} = 1.0A;$

T_{.1} = 25°C*

 $T_J = 25^{\circ}C$

 $T_{.1} = 100^{\circ}C$

I_{RR}=0.25A

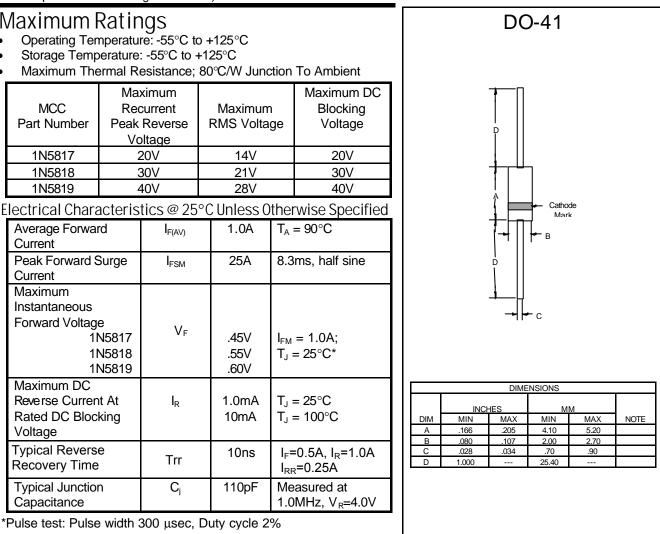
Measured at

8.3ms, half sine

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1N5817 THRU 1N5819

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



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

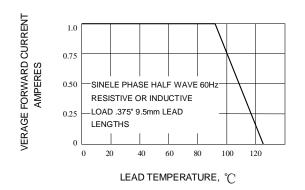
Note:1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

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1N5817 thru 1N5819



Micro Commercial Components



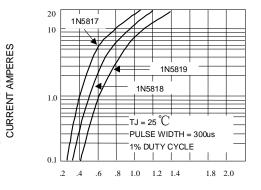
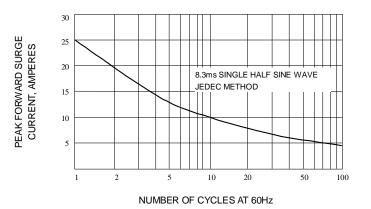


Fig. 1-FORWARD CURRENT DERATING CURVEE

INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD



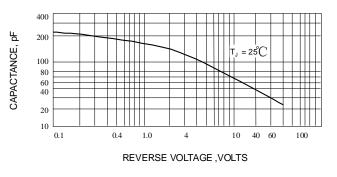


Fig. 4-TYPICAL JUNCTION CAPACITANCE

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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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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