

1N5817 THRU 1N5819

1.0AMP. SCHOTTKY BARRIER RECTIFIERS

FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed $260^{\circ}\text{C}/10\text{sec}/\ 0.375"$ lead length at 5 lbs tension

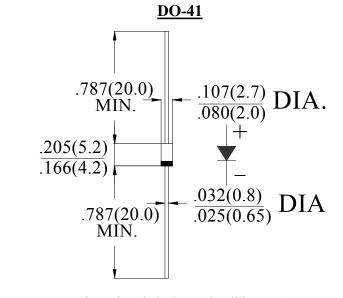
MECHANICAL DATA

. Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

. Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy

. Polarity: color band denotes cathode

. Mounting position: any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	SYM BOL	1N5817	1N5818	1N5819	units
Maximum Recurrent Peak Reverse Voltage	$V_{ m RRM}$	20	30	40	V
Maximum RMS Voltage	$V_{ m RMS}$	14	21	28	V
Maximum DC blocking Voltage	$V_{ m DC}$	20	30	40	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at $T_L = 90^{\circ}$ C	I _{F(AV)}	1.0			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{ m FSM}$	25.0			A
Maximum Forward Voltage at 1.0A DC	V_{F}	0.45 0.55			V
Maximum DC Reverse Current @T _A =25°C at rated DC blocking voltage @T _A =100°C	$I_{ m R}$	0.5 40.0			mA
Typical Junction Capacitance (Note 1)	$C_{ m J}$	110			pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	75			°C /W
Storage Temperature	T _{STG}	-55 to +150			°C
Operation JunctionTemperature	$T_{ m J}$	-55 to +125			°C

Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C.Board Mounted.

RATING AND CHARACTERISTIC CURVES (1N5817 THRU 1N5819)

