1N5817 THRU 1N5819

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20 TO 40V CURRENT: 1.0A



FEATURE

High current capability, Low forward voltage drop Low power loss, high efficiency High surge capability High temperature soldering guaranteed 250℃ /10sec/0.375" lead length at 5 lbs tension

MECHANICAL DATA

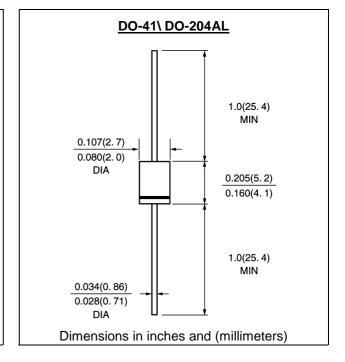
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

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

Retardant Epoxy

Polarity: color band denotes cathode

Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

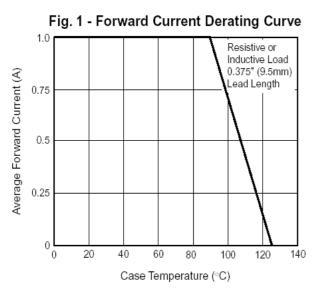
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25℃, unless otherwise stated)

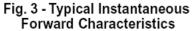
	SYM BOL	1N 5817	1N 5818	1N 5819	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	V
Maximum RMS Voltage	Vrms	14	21	28	V
Maximum DC blocking Voltage	Vdc	20	30	40	V
Maximum Average Forward Rectified Current 3/" lead length at T _L =90℃	If(av)	1.0			Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	25.0			А
Maximum Forward Voltage at 1.0A DC	Vf	0.45	0.55	0.60	V
Maximum Forward Voltage at 3.1A DC	Vf	0.75	0.875	0.90	V
Maximum DC Reverse Current Ta =25℃	lr	1.0			mA
at rated DC blocking voltage Ta =100℃	"	10.0			mA
Typical Junction Capacitance (Note 1)	Cj	110			pF
Typical Thermal Resistance (Note 2)	R(ja)	50			C/M
Storage and Operating Junction Temperature	Tstg, Tj	-65 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 0.5" lead length, vertical P.C. Board Mounted

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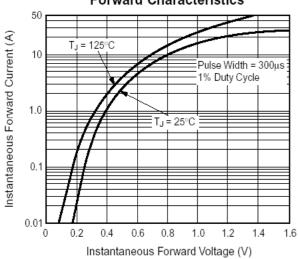


Fig. 5 - Typical Junction Capacitance

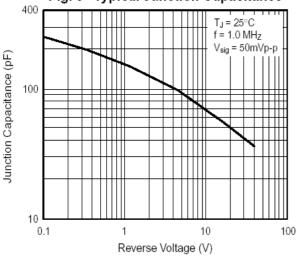


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

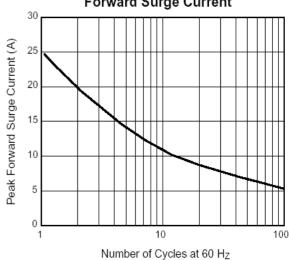
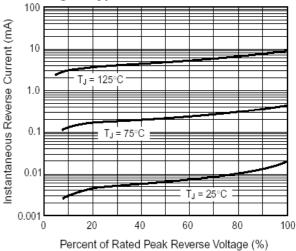
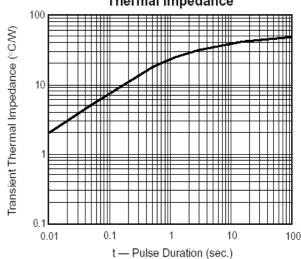


Fig. 4 - Typical Reverse Characteristics



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