1N5817 THRU 1N5819 *SCHOTTKY BARRIER RECTIFIER*

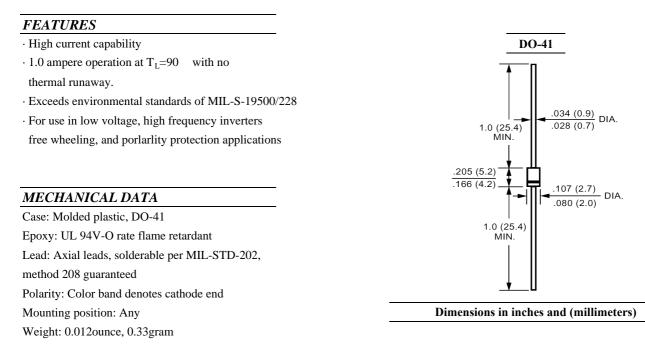
REVERSE VOLTAGE: FORWARD CURRENT:

20 to 40 VOLTS 1.0 AMPERE

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Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	1N5817	1N5818	1N5819	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at T _L =90	I _(AV)	1.0			Атр
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	25			Атр
Maximum Forward Voltage at 1.0A DC	N 7	0.45	0.55	0.60	Volts
Maximum Forward Voltage at 3.0A DC	$V_{\rm F}$	0.75	0.875	0.90	
Maximum Reverse Currentat T_A=25at Rated DC Blocking VoltageT_A=100	I _R	1.0 10			mAmp
Typical Junction Capacitance (Note 1)	CJ	110			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	80			/W
Operating and Storage Temperature Range	$T_{\rm J}$, Tstg	-55 to +125			

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance From Junction to Ambient 0.5"(12.7mm) lead length P.C.B. Mounted.

RATINGS AND CHARACTERISTIC CURVES

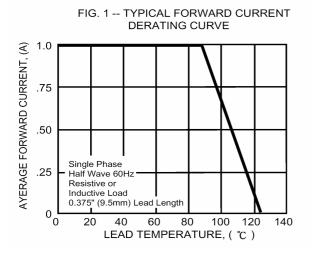


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

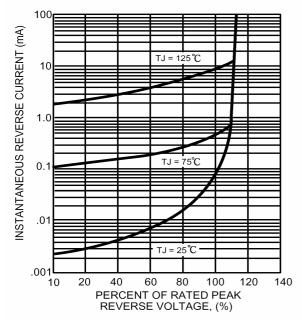


FIG. 2 - TYPICAL INSTANTANEOUS INSTANTANEOUS FORWARD CURRENT, (A) FORWARD CHARCTERISTICS 20 1N581 10 1N5819 1.0 1N5818 TJ = 25°C Pulse Width = 300uS 1% Duty Cycle 0.1 1.7 .1 .5 1.3 1.5 1.9 2.1 .3 .7 .9 1.1 INSTANTANEOUS FORWARD VOLTAGE, (V)

FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

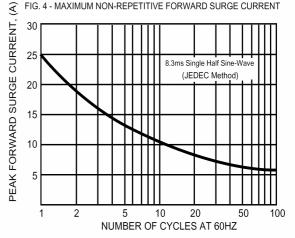
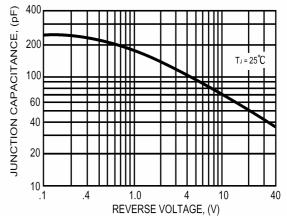


FIG. 5 - TYPICAL JUNCTION CAPACITANCE





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