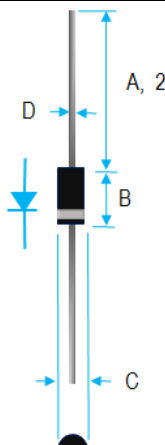




1N5817 THRU 1N5819 SPECIFICATIONS

Rev. A

1A SCHOTTKY BARRIER RECTIFIERS

 <table data-bbox="355 396 696 606"><tr><th rowspan="2">Dim.</th><th colspan="2">Value Inch[mm]</th></tr><tr><th>Min.</th><th>Max.</th></tr><tr><td>A</td><td>1.000[25.40]</td><td>---</td></tr><tr><td>B</td><td>0.166[4.22]</td><td>0.205[5.21]</td></tr><tr><td>C</td><td>0.080[2.03]</td><td>0.107[2.72]</td></tr><tr><td>D</td><td>0.028[0.71]</td><td>0.034[0.86]</td></tr></table>	Dim.	Value Inch[mm]		Min.	Max.	A	1.000[25.40]	---	B	0.166[4.22]	0.205[5.21]	C	0.080[2.03]	0.107[2.72]	D	0.028[0.71]	0.034[0.86]	PRODUCT FEATURES 1. FLAMMABILITY CLASSIFICATION: 94V-0 2. EXTREMELY LOW VF 3. LOW POWER LOSS/HIGH EFFICIENCY 4. LOW STORED CHARGE 5. MAJORITY CARRIER CONDUCTION 6. CASE: TRANSFER MOLDED DO-41 7. DIMENSIONS IN INCHES AND (MILLIMETERS) 8. POLARITY: INDICATED BY CATHODE BAND 9. WEIGHT: 0.34 GRAMS 10. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208 11. RoHS
Dim.		Value Inch[mm]																
	Min.	Max.																
A	1.000[25.40]	---																
B	0.166[4.22]	0.205[5.21]																
C	0.080[2.03]	0.107[2.72]																
D	0.028[0.71]	0.034[0.86]																

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO +125°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.

RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, 0.375"(9.5mm) LEAD LENGTH (SEE FIG.1)	I_O	1.0	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	25	A
TYPICAL JUNCTION CAPACITANCE(NOTE1)	C_J	110	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta ja}$	50	°C/W
MAXIMUM REVERSE CURRENT AT 25°C	I_R	500	uA
MAXIMUM REVERSE CURRENT AT 100°C	I_R	10,000	uA

1. MEASURED AT 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS

2. BOTH LEADS ATTACHED TO HEAT SINK 20x20x1T (mm) COPPER PLATE AT LEAD LENGTH 5mm

3. MAXIMUM FORWARD VOLTAGE AT I_O DC

PART NUMBER	MAX. RECURRENT PEAK REVERSE VOLTAGE V_{RRM} (V)	MAX. RMS VOLTAGE V_{RMS} (V)	MAX. DC BLOCKING VOLTAGE V_{DC} (V)	MAX. FORWARD VOLTAGE V_F (V)
1N5817	20	14	20	0.45
1N5818	30	21	30	0.55
1N5819	40	28	40	0.60

RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

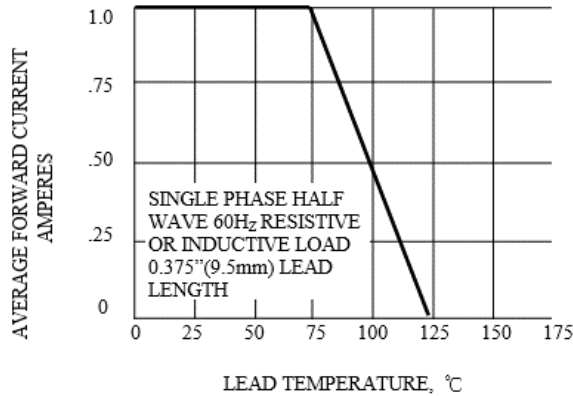


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

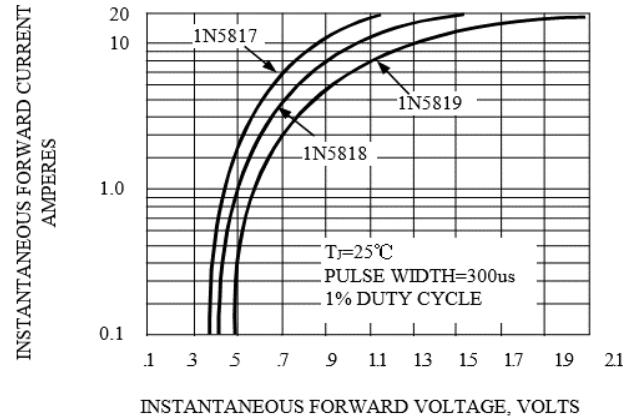


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

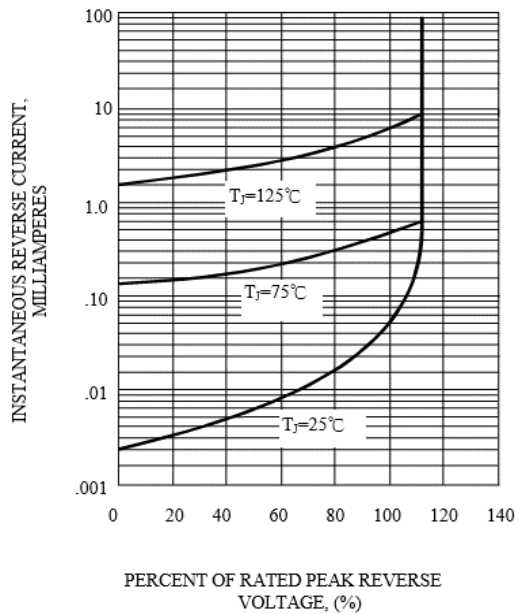
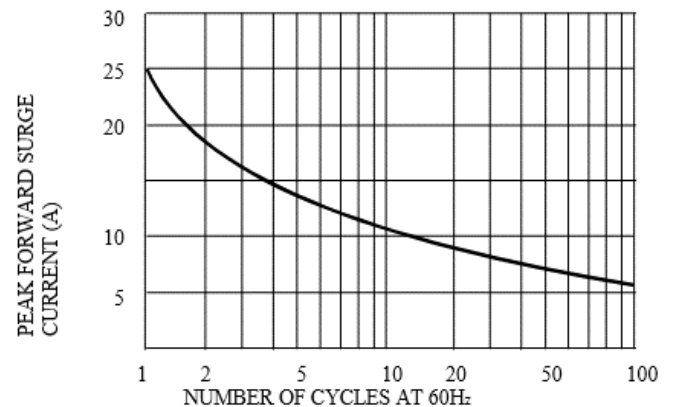


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

