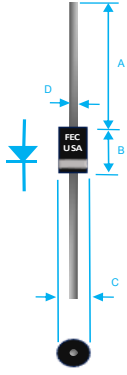


## 1A SCHOTTKY BARRIER RECTIFIERS

 <table border="1" style="margin-left: 100px;"> <thead> <tr> <th rowspan="2">Dim.</th> <th colspan="2">Value in [mm]</th> </tr> <tr> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <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[5.2]</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> </tbody> </table>	Dim.	Value in [mm]		Min.	Max.	A	1.000[25.40]	---	B	0.166[4.22]	0.205[5.2]	C	0.080[2.03]	0.107[2.72]	D	0.028[0.71]	0.034[0.86]	<h3>PRODUCT FEATURES</h3> <ol style="list-style-type: none"> <li>1. FLAMMABILITY CLASSIFICATION: 94V-0</li> <li>2. EXTREMELY LOW VF</li> <li>3. LOW POWER LOSS/HIGH EFFICIENCY</li> <li>4. LOW STORED CHARGE</li> <li>5. MAJORITY CARRIER CONDUCTION</li> <li>6. CASE: TRANSFER MOLDED D0-41</li> <li>7. DIMENSIONS IN INCHES AND (MILLIMETERS)</li> <li>8. POLARITY: INDICATED BY CATHODE BAND</li> <li>9. WEIGHT: 0.34 GRAMS</li> <li>10. MIL-STD-202, METHOD 208</li> <li>11. ROHS</li> </ol>
Dim.		Value in [mm]																
	Min.	Max.																
A	1.000[25.40]	---																
B	0.166[4.22]	0.205[5.2]																
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO + 150°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)	IO	1	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	25	A
TYPICAL JUNCTION CAPACITANCE(NOTE 1)	CJ	110	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rqja	50	°C/W
MAXIMUM REVERSE CURRENT AT 25°C	IR	1000	uA
MAXIMUM REVERSE CURRENT AT 100°C	IR	10000	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 IO DC

PART NUMBER	MAXIMUM RECURRENT PEAK REVERSE VOLTAGE VRRM (V)	MAXIMUM RMS VOLTAGE VRMS (V)	MAXIMUM DC BLOCKING VOLTAGE VDC (V)	MAXIMUM FORWARD VOLTAGE VF (V)
1N5817	20	14	20	0.45
1N5818	30	21	30	0.55
1N5819	40	28	40	0.6

## RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

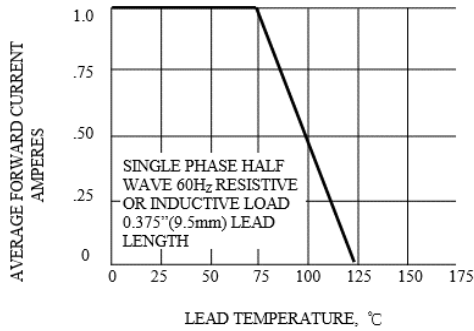


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

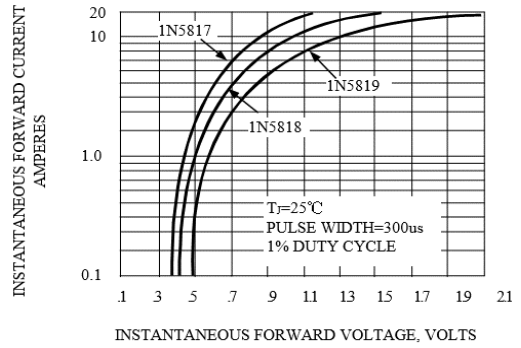


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

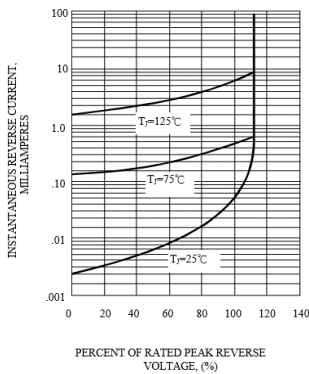
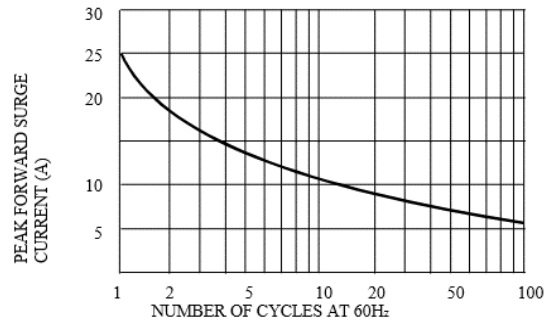


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

