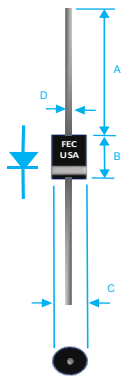


## 5A SCHOTTKY BARRIER RECTIFIERS

 <table border="1" style="margin-left: auto; margin-right: auto;"> <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>0.335[8.51]</td> <td>0.375[9.52]</td> </tr> <tr> <td>C</td> <td>0.187[5.00]</td> <td>0.220[5.59]</td> </tr> <tr> <td>D</td> <td>0.048[1.22]</td> <td>0.052[1.32]</td> </tr> </tbody> </table>	Dim.	Value In[mm]		Min.	Max.	A	1.000[25.40]	---	B	0.335[8.51]	0.375[9.52]	C	0.187[5.00]	0.220[5.59]	D	0.048[1.22]	0.052[1.32]	<b>PRODUCT FEATURES</b> <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:DO201AD</li> <li>7. DIMENSIONS IN INCHES AND (MILLIMETERS)</li> <li>8. POLARITY: INDICATED BY CATHODE BAND</li> <li>9. WEIGHT: 1.2 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	0.335[8.51]	0.375[9.52]																
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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
AVERAGE FORWARD RECTIFIED CURRENT (SEE FIG.1)	IO	5	A
NOM-REPETITIVE PEAK FWD SURGE CURRENT, 8.3mS HALF SINE-WAVE	IFSM	150	A
TYPICAL JUNCTION CAPACITANCE(NOTE1)	CJ	200	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rqja	25	°C/W
MAXIMUM REVERSE CURRENT AT 25°C	IR	5000	uA
MAXIMUM REVERSE CURRENT AT 100 °C	IR	50000	uA

1. MEASURED AT 1.0MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VDC
2. BOTH LEADS ATTACHED TO HEAT SINK 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)
SR502	20	14	20	0.55
SR503	30	21	30	0.55
SR504	40	28	40	0.55
SR505	50	35	50	0.7
SR506	60	42	60	0.7
SR507	70	49	70	0.85
SR508	80	56	80	0.85
SR509	90	63	90	0.85
SR510	100	70	100	0.85

## RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

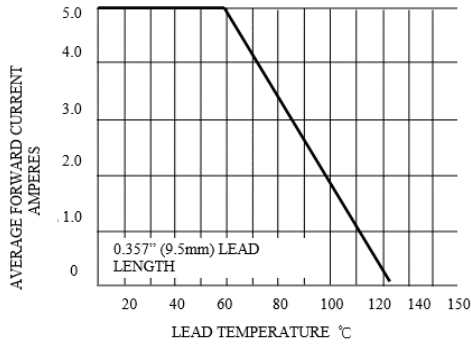


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

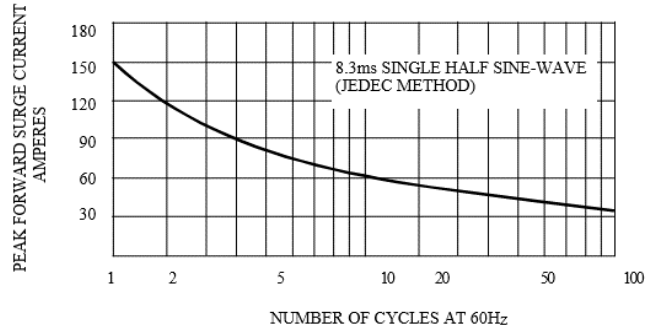


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

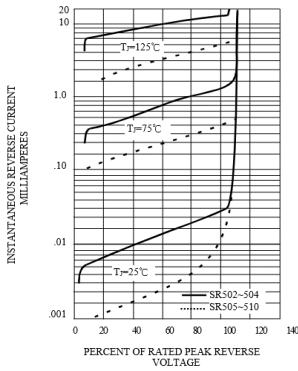


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

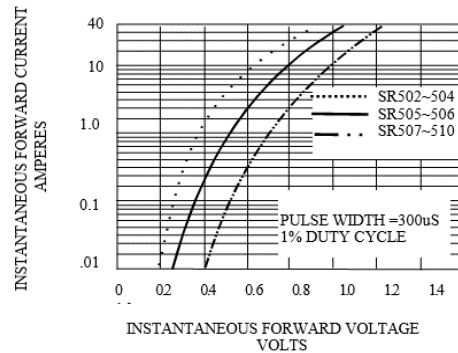


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

