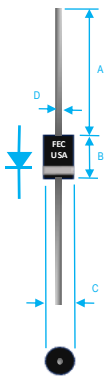


## 3A GLASS PASSIVATED ULTRA FAST RECOVERY RECTIFIER

 <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>0.097[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	0.097[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. GLASS PASSIVATED CHIP JUNCTION</li> <li>3. LOW LEAKAGE</li> <li>4. LOW FORWARD VOLTAGE DROP</li> <li>5. HIGH SURGE CURRENT CAPABILITY</li> <li>6. ULTRA FAST SWITCHING</li> <li>7. CASE: MOLDED PLASTIC, DO201AD</li> <li>8. POLARITY: INDICATED BY CATHODE BAND</li> <li>9. WEIGHT : 1.2 GRAMS</li> <li>10. TERMINALS : PER MIL-STD-202, METHOD 208</li> <li>11. PULLING TEST: 2.3 KG</li> <li>12. 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
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT 0.375"(9.5mm) LEAD LENGTH @ TA=55°C	IO	3	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	150	A
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rqja	20	°C/W
MAXIMUM REVERSE CURRENT @ 25°C	IR	10	uA
MAXIMUM REVERSE CURRENT @ 100 °C	IR	100	uA

1. Cj MEASURED @ 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
2. BOTH LEADS ATTACHED TO HEAT SINK 63.5x63.5x1t(mm) COPPER PLATE @ LEAD LENGTH 5mm
3. REVERSE RECOVERY TEST CONDITIONS: IF=0.5A, IR=1.0A, IRR=0.25A
4. MAXIMUM FORWARD VOLTAGE @ Io DC

PART NUMBER	MAX RECURRENT PK REV VOLTAGE VRRM (V)	MAX RMS VOLTAGE VRMS (V)	MAX DC BLOCKING VOLTAGE VDC (V)	MAX FWD VOLTAGE VF (V)	TYPICAL JUNCTION CAP CJ (PF)	MAX REVERSE RECOVERY TIME nS
UF5400G	50	35	50	1.3	75	50
UF5401G	100	70	100	1.3	75	50
UF5402G	200	140	200	1.3	75	50
UF5403G	300	210	300	1.3	75	50
UF5404G	400	280	400	1.3	75	50
UF5406G	600	420	600	1.7	50	75
UF5407G	800	560	800	1.7	50	75
UF5408G	1000	700	1000	1.7	50	75

## RATING AND CHARACTERISTIC CURVES

FIG. 1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

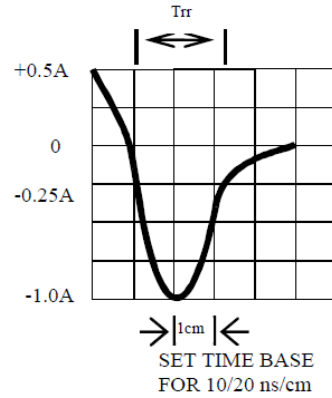
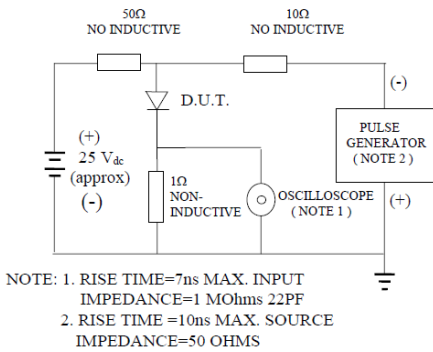


FIG. 2 -TYPICAL FORWARD CURRENT DERATING CURVE

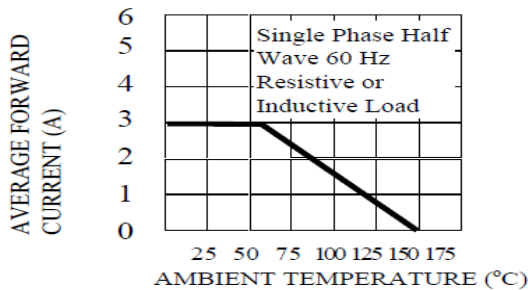


FIG. 3 -TYPICAL REVERSE CHARACTERISTICS

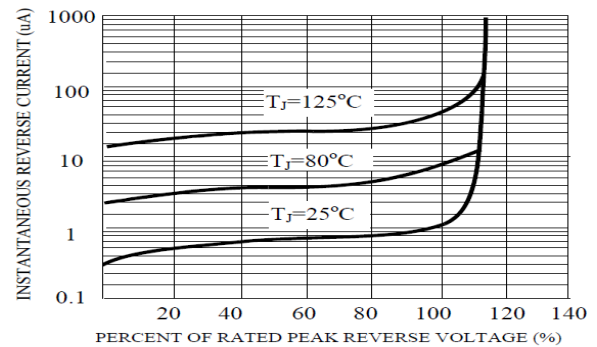


FIG. 4 -TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

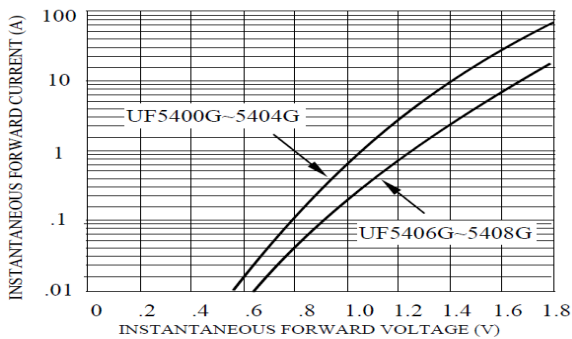
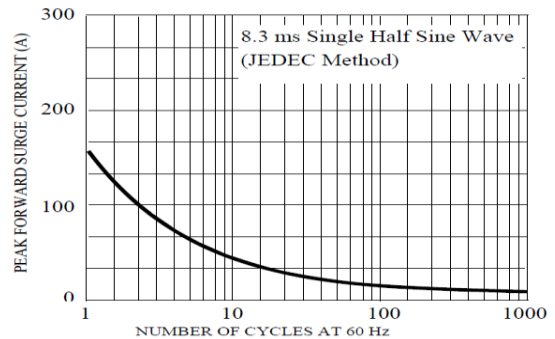


FIG. 5 -MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





# UF5400G THRU UF5408G SPECIFICATIONS

Rev. A

