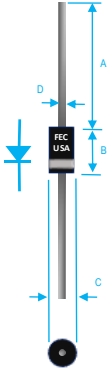


1A ULTRA FAST EFFICIENT RECTIFIER

 <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>0.86[4.22]</td> <td>0.205[5.2]</td> </tr> <tr> <td>C</td> <td>0.080[2.03]</td> <td>0.407[10.22]</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	0.86[4.22]	0.205[5.2]	C	0.080[2.03]	0.407[10.22]	D	0.028[0.71]	0.034[0.86]	PRODUCT FEATURES <ol style="list-style-type: none"> 1. FLAMMABILITY CLASSIFICATION: 94V-0 2. GLASS PASSIVATED CHIP JUNCTION 3. LOW LEAKAGE 4. LOW FORWARD VOLTAGE DROP 5. HIGH SURGE CURRENT CAPABILITY 6. ULTRA FAST SWITCHING 7. LOW LOSSES 8. CASE: TRANSFER MOLDED D0-41 9. POLARITY: INDICATED BY CATHODE BAND 10. WEIGHT : 0.34 GRAMS 11. TERMINALS : PER MIL-STD-202E METHOD 208C 12. ROHS
Dim.		Value in [mm]																
	Min.	Max.																
A	1.000[25.40]	—																
B	0.86[4.22]	0.205[5.2]																
C	0.080[2.03]	0.407[10.22]																
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 + 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	1	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	35	A
TYPICAL JUNCTION CAPACITANCE(NOTE 1)	CJ	70	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rqja	50	°C/W
MAXIMUM REVERSE CURRENT @ 100°C	IR	50	uA

1. Cj MEASURED @ 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
2. BOTH LEADS ATTACHED TO HEAT SINK 20x20x1t(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)	MAX REV CURRENT AT 25°C IR (uA)	MAX REVERSE RECOVERY TIME nS
MUR105	50	35	50	0.875	2	25
MUR110	100	70	100	0.875	2	25
MUR115	150	105	150	0.875	2	25
MUR120	200	140	200	0.875	2	25
MUR140	400	280	400	1.25	5	50
MUR160	600	480	600	1.25	5	50
MUR180	800	560	800	1.75	5	75
MUR1100	1000	700	1000	1.75	5	75

RATING AND CHARACTERISTIC CURVES

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

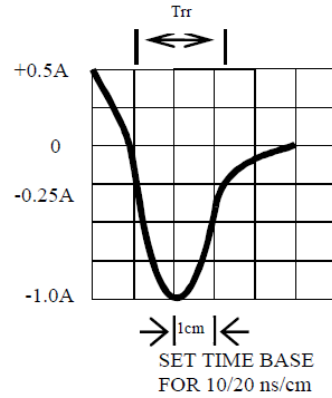
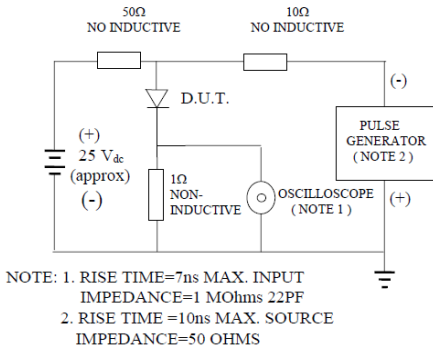


FIG. 2-TYPICAL FORWARD CURRENT DERATING CURVE

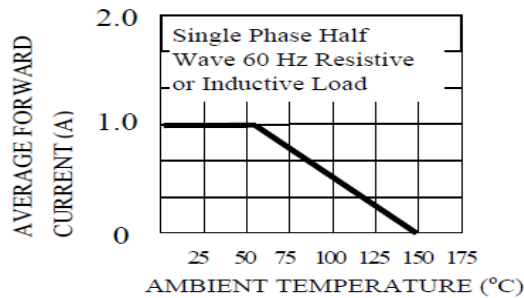


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

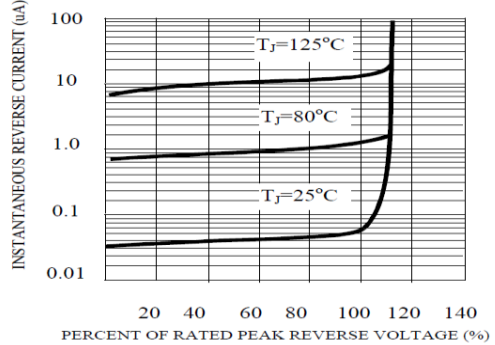


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

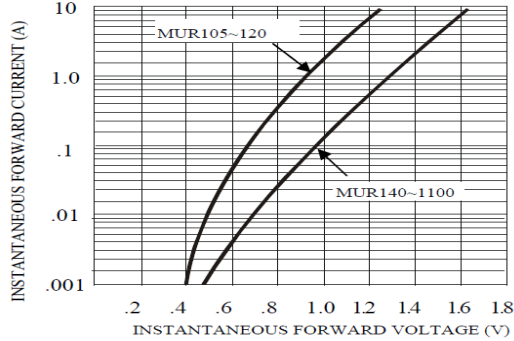
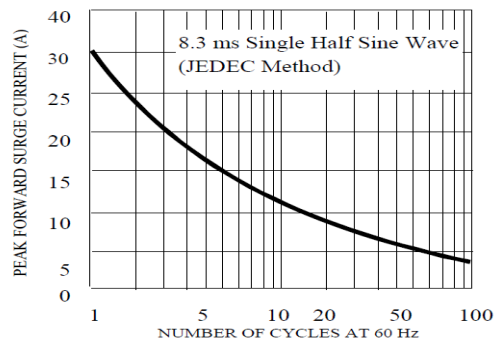


FIG. 5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





MUR105 THRU MUR1100 SPECIFICATIONS

Rev. A

