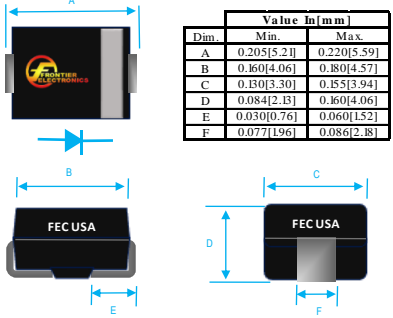


3A ULTRA FAST RECOVERY SURFACE MOUNT RECTIFIER

 <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>0.205[5.21]</td> <td>0.220[5.59]</td> </tr> <tr> <td>B</td> <td>0.160[4.06]</td> <td>0.180[4.57]</td> </tr> <tr> <td>C</td> <td>0.130[3.30]</td> <td>0.153[3.94]</td> </tr> <tr> <td>D</td> <td>0.084[2.13]</td> <td>0.160[4.06]</td> </tr> <tr> <td>E</td> <td>0.030[0.76]</td> <td>0.060[1.52]</td> </tr> <tr> <td>F</td> <td>0.077[1.96]</td> <td>0.086[2.18]</td> </tr> </tbody> </table>	Dim	Value in (mm)		Min	Max	A	0.205[5.21]	0.220[5.59]	B	0.160[4.06]	0.180[4.57]	C	0.130[3.30]	0.153[3.94]	D	0.084[2.13]	0.160[4.06]	E	0.030[0.76]	0.060[1.52]	F	0.077[1.96]	0.086[2.18]	<h3>PRODUCT FEATURES</h3> <ol style="list-style-type: none"> 1. FLAMMABILITY CLASSIFICATION: 94V-0 2. GLASS PASSIVATED CHIP JUNCTION 3. BUILT-IN STRAIN RELIEF 4. LOW PROFILE 5. ULTRA FAST SWITCHING 6. CASE: MOLDED PLASTIC, DO-214AA (SMB-F) 7. POLARITY: INDICATED BY CATHODE BAND 8. WEIGHT : 0.093 GRAMS 9. ROHS
Dim		Value in (mm)																						
	Min	Max																						
A	0.205[5.21]	0.220[5.59]																						
B	0.160[4.06]	0.180[4.57]																						
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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	75	A
TYPICAL JUNCTION CAPACITANCE(NOTE 1)	CJ	10	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rqja	13	°C/W
MAXIMUM REVERSE CURRENT @ 125 °C	IR	250	uA

1. Cj MEASURED @ 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS

2. THERMAL RESISTANCE FROM JUNCTION TO AMBIENT AND JUNCTION TO LEAD PCB MOUNTED ON 0.3×0.3"(8.0×8.0mm) COPPER PAD AREAS

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
MURS305	50	35	50	0.875	2	25
MURS310	100	70	100	0.875	2	25
MURS315	150	105	150	0.875	2	25
MURS320	200	140	200	0.875	2	25
MURS340	400	280	400	1.25	5	50
MURS360	600	420	600	1.25	5	50

RATING AND CHARACTERISTIC CURVES

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

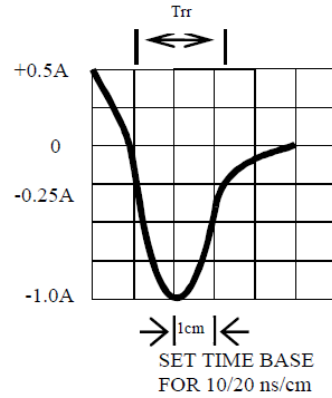
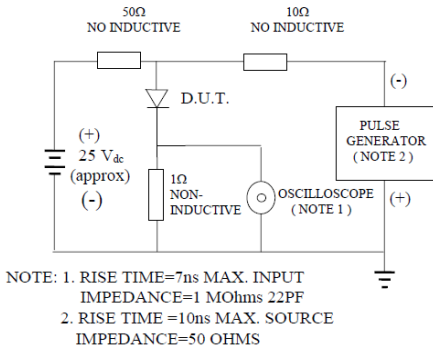


FIG. 2-TYPICAL FORWARD CURRENT DERATING CURVE

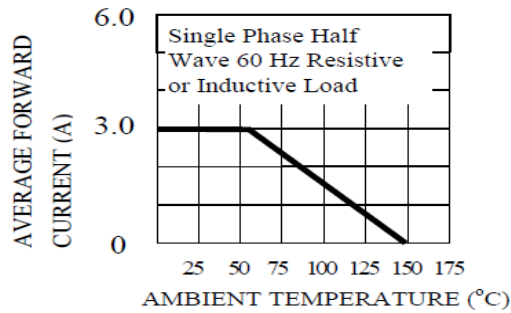


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

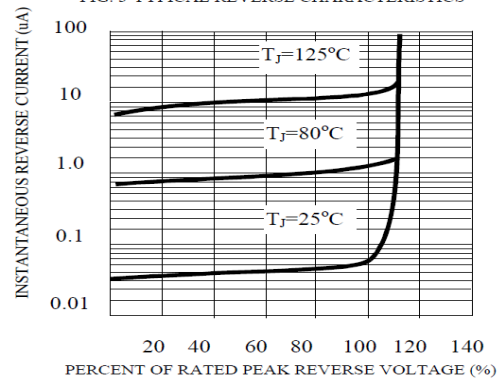


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

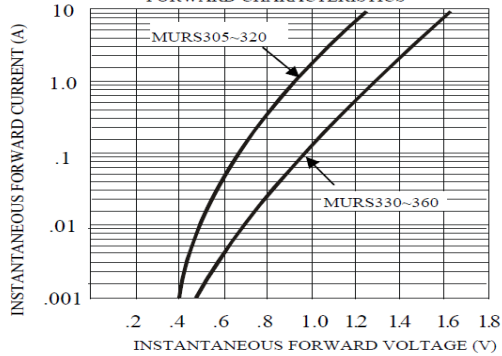
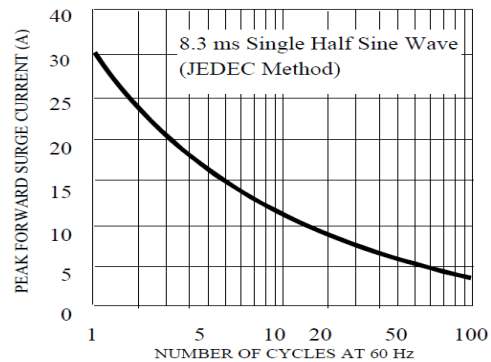


FIG. 5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





MURS305 THRU MURS360 SPECIFICATIONS

Rev. A

