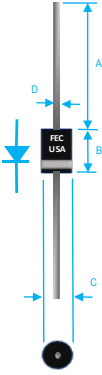


5A FAST RECOVERY PLASTIC RECTIFIER



Dim.	Value In (mm)	
	Min.	Max.
A	1.000[25.40]	—
B	0.335[8.51]	0.375[9.52]
C	0.197[5.00]	0.220[5.59]
D	0.048[1.22]	0.052[1.32]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. DIFFUSED JUNCTION
3. HIGH SURGE CURRENT CAPABILITY
4. FAST SWITCHING
5. CASE: MOLDED PLASTIC, P6
6. DIMENSIONS IN INCHES AND (MILLIMETERS)
7. POLARITY: INDICATED BY CATHODE BAND
8. WEIGHT : 2.1 GRAMS
9. TERMINALS : PER MIL-STD-202, METHOD 208
10. PULLING TEST: 2.3 KG
11. ROHS

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 @ 55°C	IO	5	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	300	A
TYPICAL JUNCTION CAPACITANCE(NOTE 1)	CJ	300	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rqja	10	°C/W
MAXIMUM REVERSE CURRENT @ 25°C	IR	10	uA
MAXIMUM REVERSE CURRENT @ 125°C	IR	100	uA
MAXIMUM REVERSE RECOVERY TIME	TRR	100	nS

1. MEASURED @ 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V
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 AT IO DC

PART NUMBER	MAX RECURRENT PK REV VOLTAGE VRRM (V)	MAX RMS VOLTAGE VRMS (V)	MAX DC BLOCKING VOLTAGE VDC (V)	MAX AVE FWD RECTIFIED CURRENT IO (A)	TYPICAL THERMAL RESISTANCE Rqjc(°C/W)	MAXIMUM FORWARD VOLTAGE VF (V)	PK FWD SURGE CURRENT IFSM (A)
MR820	50	35	50	5	10	1.1	300
MR821	100	70	100	5	10	1.1	300
MR822	200	140	200	5	10	1.1	300
MR824	400	280	400	5	10	1.1	300
MR826	600	420	600	5	10	1.1	300
MR850	50	35	50	3	20	1.25	100
MR851	100	70	100	3	20	1.25	100
MR852	200	140	200	3	20	1.25	100
MR854	400	280	400	3	20	1.25	100
MR856	600	420	600	3	20	1.25	100
MR858	800	560	800	3	20	1.5	100
MR8510	1000	700	1000	3	20	1.75	100

RATING AND CHARACTERISTIC CURVES

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

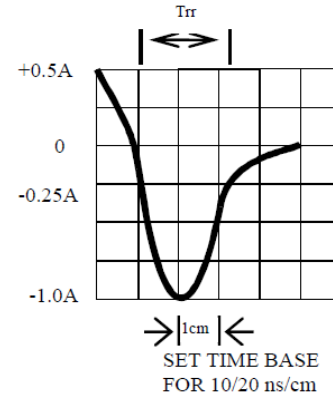
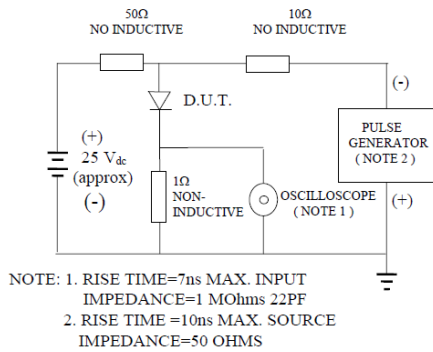


Fig. 2-MAXIMUM CURRENT DERATING CURVE

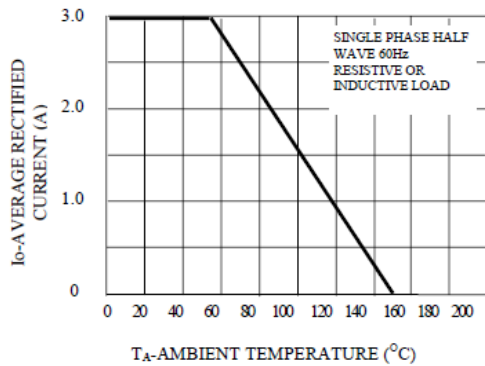


Fig. 3-MAXIMUM FORWARD SURGE NUMBER OF CYCLES

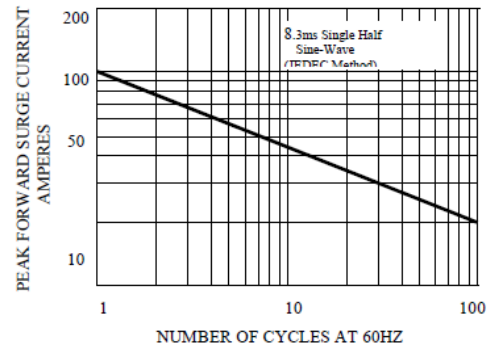


FIG. 4-TYPICAL JUNCTION CAPACITANCE

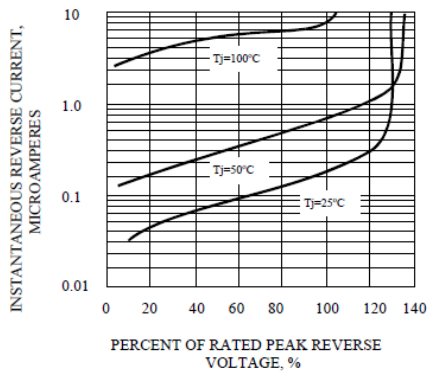


FIG. 5-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

