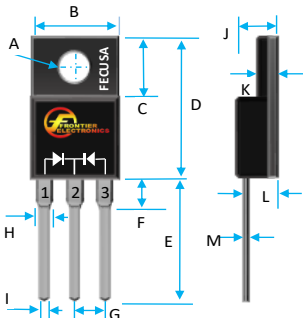


20A SUPER FAST RECOVERY RECTIFIER 50V-600V



Dim.	Value In [mm]	
	Min.	Max.
A	0.181[3.00]	0.134[3.40]
B	0.381[9.70]	0.406[10.26]
C	0.248[6.30]	0.272[6.91]
D	0.583[14.48]	0.606[15.49]
E	0.512[12.98]	0.548[13.79]
F	---	0.16[4.09]
G	0.095[2.41]	0.105[2.67]
H	---	0.060[1.52]
I	0.019[0.48]	0.028[0.71]
J	0.165[4.19]	0.189[4.80]
K	0.099[2.51]	0.130[3.30]
L	0.098[2.49]	0.114[2.90]
M	---	0.032[0.81]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. GLASS PASSIVATED CHIP JUNCTION
3. LOW FORWARD VOLTAGE DROP
4. HIGH SURGE CURRENT CAPABILITY
5. LOW LOSSES
6. CASE: TRANSFER MOLDED, ITO-220AB
7. POLARITY: AS MARKED
8. WEIGHT : 1.70 GRAMS
9. TERMINALS : PER MIL-STD-202, METHOD 208
10. ROHS/HALOGEN FREE

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	IO	20	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	125	A
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rqjc	2	°C/W
MAXIMUM REVERSE CURRENT @ 25°C	IR	5	uA
MAXIMUM REVERSE CURRENT @ 125°C	IR	250	uA
MAXIMUM REVERSE RECOVERY TIME	TRR	35	nS

1. THERMAL RESISTANCE JUNCTION TO CASE PER LEG MOUNTED ON HEAT SINK
2. REVERSE RECOVERY TEST CONDITIONS: IF=0.5A, IR=1.0A, IRR=0.25A
3. 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)	MARKING
SF2005FCT	50	35	50	0.98	SF2005FCT
SF2010FCT	100	70	100	0.98	SF2010FCT
SF2020FCT	200	140	200	0.98	SF2020FCT
SF2040FCT	400	280	400	1.3	SF2040FCT
SF2060FCT	600	420	600	1.7	SF2060FCT

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

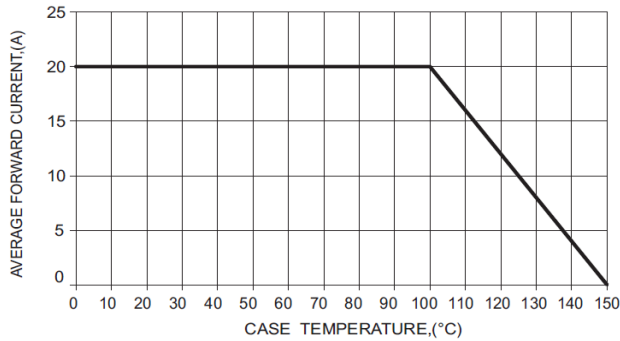


FIG.2-TYPICAL FORWARD CHARACTERISTICS

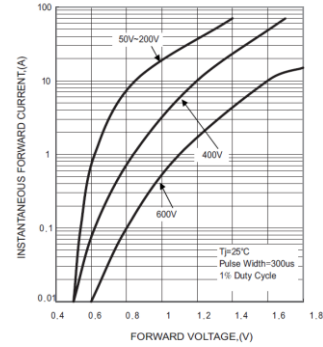


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

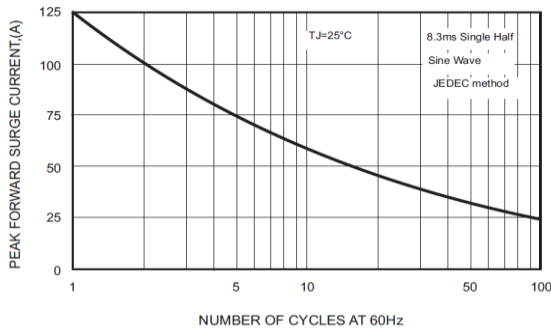


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

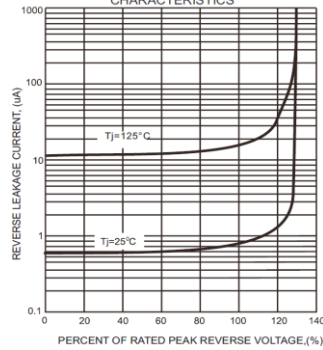
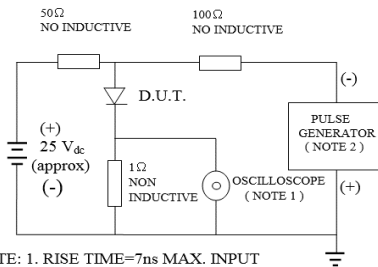


FIG. 1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTE: 1. RISE TIME=7ns MAX. INPUT IMPEDANCE=1 MOhms 22PF
2. RISE TIME =10ns MAX. SOURCE IMPEDANCE=50 OHMS

