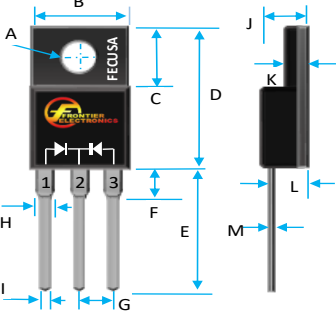


20A/100V BARRIER RECTIFIERS



Dim.	Value in [mm]	
	Min.	Max.
A	0.118[3.00]	0.134[3.40]
B	0.382[9.70]	0.404[10.26]
C	0.248[6.30]	0.272[6.91]
D	0.570[14.48]	0.610[15.49]
E	0.511[12.98]	0.543[13.79]
F	---	0.161[4.09]
G	0.095[2.41]	0.105[2.67]
H	---	0.060[1.52]
I	---	0.035[0.89]
J	---	0.189[4.80]
K	---	0.122[3.10]
L	0.098[2.49]	0.114[2.90]
M	---	0.031[0.79]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. EXTREMELY LOW VF
3. LOW POWER LOSS/HIGH EFFICIENCY
4. FAST SWITCHING CAPABILITY
5. EXCELLENT HIGH TEMPERATURE STABILITY
6. CASE : TRANSFER MOLDED, ITO-220AB
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. POLARITY : AS MARKED
9. WEIGHT : 2.25 GRAM
10. MIL-STD-202, METHOD 208
11. 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 (SEE FIG.1)	IO	10	A
PK FWD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD PER LEG	IFSM	250	A
TYPICAL THERMAL RESISTANCE JUNCTION TO CASE PER LEG	Rajc	3	°C/W
MAXIMUM FORWARD VOLTAGE	VF	0.75/0.64/0.85	V
REVERSE CURRENT AT PER LEG (VR = VRRM, Tj =25°C)	IR	100	uA
REVERSE CURRENT AT PER LEG (VR = VRRM, Tj =125°C)	IR	10000	uA
PEAK REPETITIVE REVERSE SURGE CURRENT (2us-1kHz)	IRRM	3	A

1. THERMAL RESISTANCE WITH HEATSINK SIZE AL PLATE (1.35" x 0.95"x 0.18")

2. MAXIMUM FORWARD VOLTAGE PER LEG AT 10A , 25°C / 10A , 125°C / 20A, 25°C

PART NUMBER	MAXIMUM RECURRENT PEAK REVERSE VOLTAGE VRRM (V)	MAXIMUM RMS VOLTAGE VRMS (V)	MAXIMUM DC BLOCKING VOLTAGE VDC (V)
SBF20L100CT	100	100	100

RATING AND CHARACTERISTIC CURVES

Fig. 1 - Forward Power Dissipation

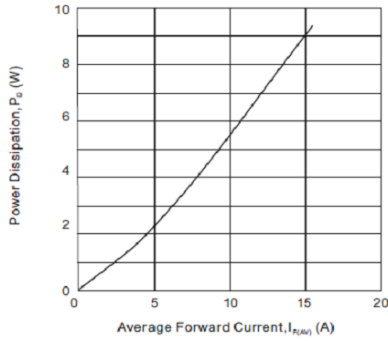


Fig. 2 - Instantaneous Forward Characteristics

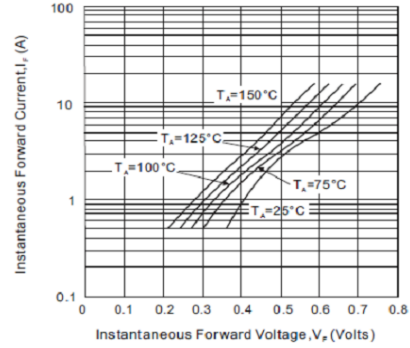


Fig. 3 - Reverse Characteristics

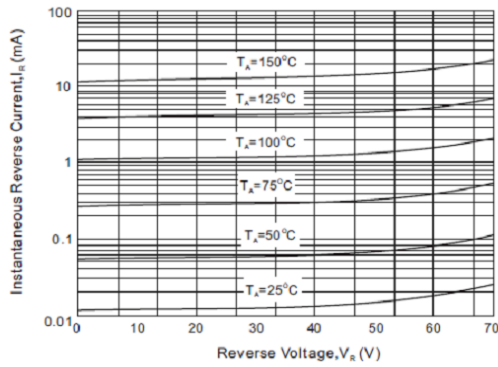


Fig. 4 - Forward Current Derating Curve

