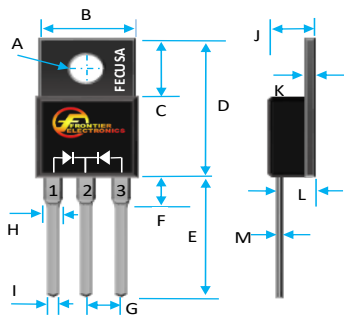


20A 40V/45V BARRIER RECTIFIERS



Dim.	Value in [mm]	
	Min.	Max.
A	0.14 [3.58]	0.16 [4.09]
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	0.51 [12.98]	0.543 [13.79]
F	---	0.16 [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	0.043 [1.09]	---
L	0.098 [2.49]	0.114 [2.90]
M	---	0.03 [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, TO-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	180	A
MAXIMUM FORWARD VOLTAGE	VF	0.50/0.47/0.60	V
REVERSE CURRENT AT PER LEG (VR = VRRM, Tj =25°C)	IR	500	uA
REVERSE CURRENT AT PER LEG (VR = VRRM, Tj =125°C)	IR	100000	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)
SB20L40CT	40	40	40
SB20L45CT	45	45	45



RATING AND CHARACTERISTIC CURVES

Fig. 1 - Instantaneous Forward Characteristics (per diode)

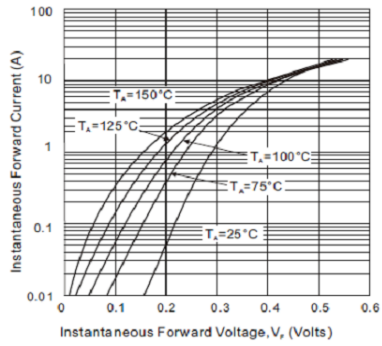


Fig.2 - Forward Current Derating Curve (per diode)

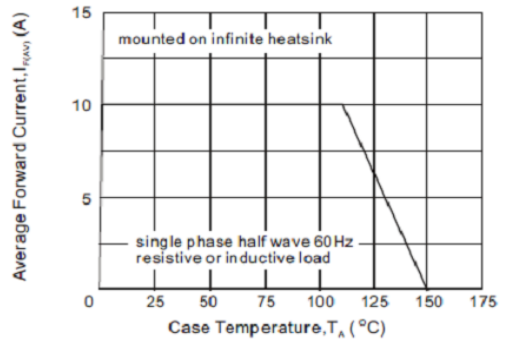


Fig. 3 - Reverse Characteristics (per diode)

