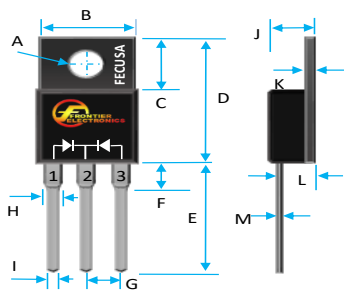


## 10A 40V/45V BARRIER RECTIFIERS



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	5	A
PK FWD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD PER LEG	IFSM	150	A
MAXIMUM FORWARD VOLTAGE	VF	0.48/0.42	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	2	A

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

2. MAXIMUM FORWARD VOLTAGE PER LEG AT 5A, 25°C / 5A, 125°C

PART NUMBER	MAXIMUM RECURRENT PEAK REVERSE VOLTAGE VRRM (V)	MAXIMUM RMS VOLTAGE VRMS (V)	MAXIMUM DC BLOCKING VOLTAGE VDC (V)
SB10L40CT	40	40	40
SB10L45CT	45	45	45



## RATING AND CHARACTERISTIC CURVES

Fig. 1 - Forward Current Derating Curve (per diode)

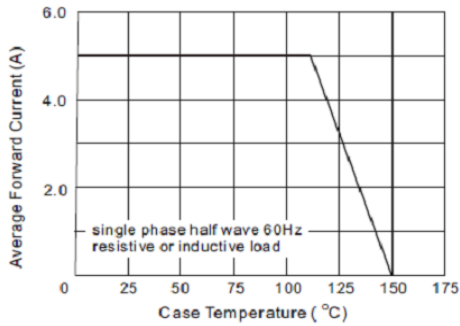


Fig. 2 - Instantaneous Forward Characteristics (per diode)

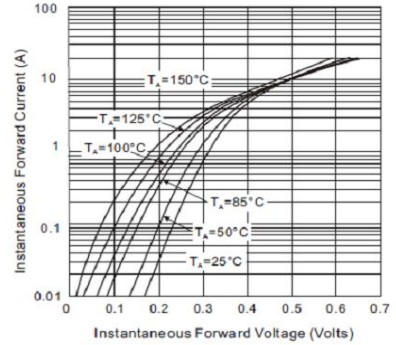


Fig. 3 - Reverse Characteristics (per diode)

