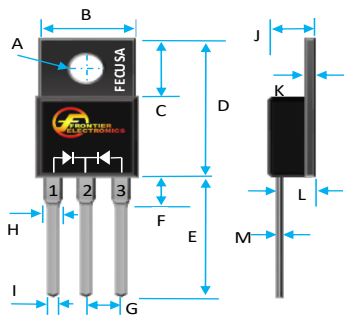


10A/60V BARRIER RECTIFIERS



| 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 | 0.52/0.47 | 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 |

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) |
|-------------|---|------------------------------|-------------------------------------|
| SB10L60CT | 60 | 60 | 60 |

RATING AND CHARACTERISTIC CURVES

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

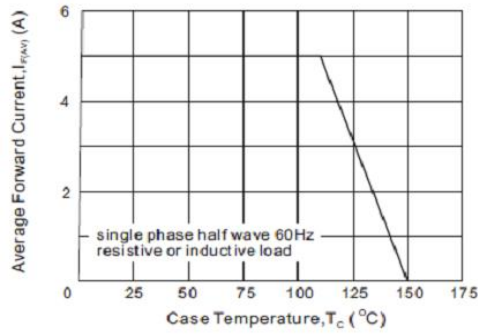


Fig. 2 - Instantaneous Forward Characteristics (per diode)

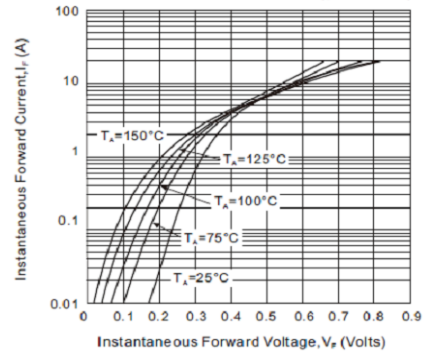


Fig. 3 - Reverse Characteristics (per diode)

