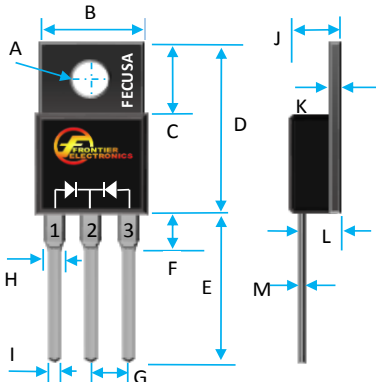


10A/100V BARRIER RECTIFIERS

 <table border="1" data-bbox="454 430 722 735"> <thead> <tr> <th rowspan="2">Dim</th> <th colspan="2">Value In[mm]</th> </tr> <tr> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>0.14 [3.58]</td> <td>0.16 [4.09]</td> </tr> <tr> <td>B</td> <td>0.382 [9.70]</td> <td>0.404 [10.26]</td> </tr> <tr> <td>C</td> <td>0.248 [6.30]</td> <td>0.272 [6.91]</td> </tr> <tr> <td>D</td> <td>0.570 [14.48]</td> <td>0.610 [15.49]</td> </tr> <tr> <td>E</td> <td>0.51 [12.98]</td> <td>0.543 [13.79]</td> </tr> <tr> <td>F</td> <td>---</td> <td>0.16 [4.09]</td> </tr> <tr> <td>G</td> <td>0.095 [2.41]</td> <td>0.105 [2.67]</td> </tr> <tr> <td>H</td> <td>---</td> <td>0.060 [1.52]</td> </tr> <tr> <td>I</td> <td>---</td> <td>0.035 [0.89]</td> </tr> <tr> <td>J</td> <td>---</td> <td>0.189 [4.80]</td> </tr> <tr> <td>K</td> <td>0.043 [1.09]</td> <td>---</td> </tr> <tr> <td>L</td> <td>0.098 [2.49]</td> <td>0.114 [2.90]</td> </tr> <tr> <td>M</td> <td>---</td> <td>0.03 [0.79]</td> </tr> </tbody> </table>	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]	<h3>PRODUCT FEATURES</h3> <ol style="list-style-type: none"> 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
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]																																											

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
TYPICAL THERMAL RESISTANCE JUNCTION TO CASE PER LEG	R _{jc}	2	°C/W
MAXIMUM FORWARD VOLTAGE	VF	0.72/0.6	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	100000	uA
PEAK REPETITIVE REVERSE SURGE CURRENT (2us-1kHz)	IRRM	1	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)
SB10L100CT	100	100	100

RATING AND CHARACTERISTIC CURVES

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

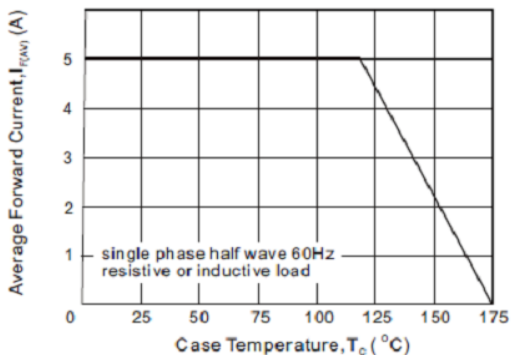


Fig. 2 - Instantaneous Forward Characteristics (per diode)

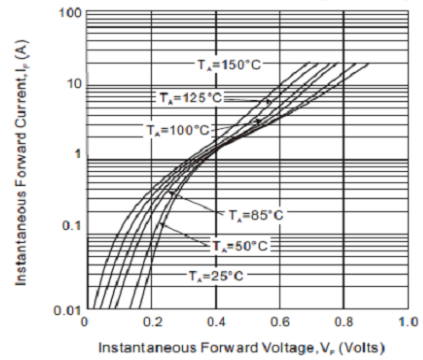


Fig. 3 - Reverse Characteristics (per diode)

