FBP

Semiconductor Fuses 700 Volts AC/DC, 35-1000 Amps



CATALOG SYMBOL: FBP
700V AC, 700V DC
INTERRUPTING RATING 200,000 AMPERES
RMS SYMMETRICAL
U.L. RECOGNIZED
(GUIDE #JFHR2, FILE # E56412)

Catalog Numbers

| FBP-35 | FBP-80 | FBP-350 |
|--------|---------|----------|
| FBP-40 | FBP-90 | FBP-400 |
| FBP-50 | FBP-100 | FBP-450 |
| FBP-60 | FBP-125 | FBP-500 |
| FBP-70 | FBP-150 | FBP-600 |
| | FBP-175 | FBP-700 |
| | FBP-200 | FBP-800 |
| | FBP-250 | FBP-900 |
| | FBP-300 | FBP-1000 |
| | | |

Ultra High Degree of Current Limitation and Low I2t.

- The heat energy of even low-level fault currents can quickly destroy a semiconductor device.
- * Buss FW type fuse limits peak let-thru current to a level which is a fraction of the potential available short-circuit peak current.
- Fast speed-of-response to build-up of short-circuit current and the quickly decaying short-circuit current as the fuse suppresses internal arcing together can limit the l²t let-thru to values substantially lower than the l²t withstand of the semi-conductor device.

Current Rating.

- Current rating is given in AC (rms) for an ambient temperature of 20°C (68°F).
- Although these fuses can be operated at 100% of rating, good design practice dictates some derating (i.e. for ambient temperature), typically this is 20%.

Voltage Rating.

- Rated voltage of Semiconductor fuses is given in terms of A.C. operation, 60Hz.
- When used in D.C. circuits no voltage derating is required provided the minimum interrupting capability is eight times the fuse rating and the time constant does not exceed those specified in U.L. 198L.

Total Clearing I2t.

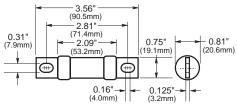
 Maximum values of total clearing l²t are obtained at the rated A.C. voltage, an arcing angle between 60° and 90°, at an available symmetrical rms current of 100,000 amperes, and at a power factor of less than 15%.

Arc Voltage.

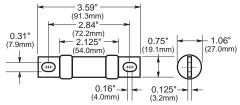
- The arc voltage which develops across a fuse when it is clearing a fault current must always exceed the system voltage.
- This arc voltage may reach a value which is twice that of the system applied voltage.

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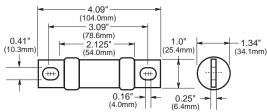
Dimensional Data



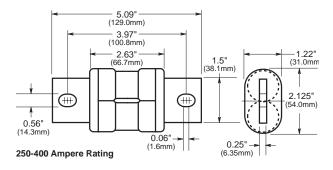
35-60 Ampere Rating

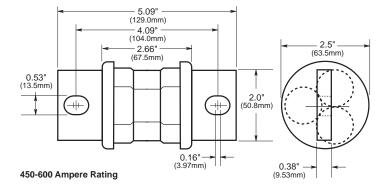


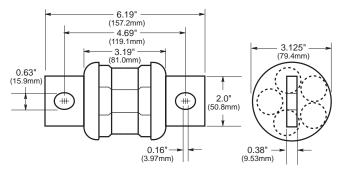
70-100 Ampere Rating



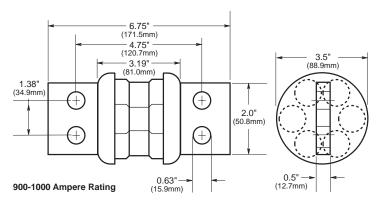
125-200 Ampere Rating





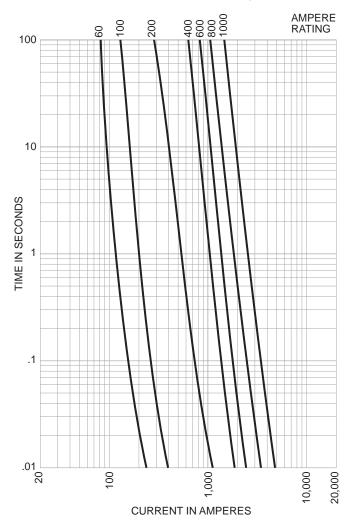


700-800 Ampere Rating



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Time-Current Characteristic Curves-Average Melt



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