

# A50P

## SEMICONDUCTOR PROTECTION FUSES



A50P Amp-trap® Form 101 Semiconductor Protection fuses were developed for DC drives, uninterruptable power supplies and similar applications requiring better protection (lower  $I^2t$ ) and superior reliability. The A50P is typically used for replacement.

### Features/Benefits

- **Low  $I^2t$**  minimizes damage to protected components on short circuit
- **Controlled arc voltage** reduces stress to circuit components during fuse clearing
- **Choice of mounting types** helps in equipment design

### Ratings

- **AC:** 10-1200A  
500VAC, 100kA I.R.
- **DC:** 35-1000A  
450VDC, 79kA I.R.  
L/R = 10ms

### Approvals

- UL Recognized Component
- AC: UL Guide No. JFHR2 (10-800A)
- DC: UL Guide No. JFHR2 (35-800A)

### HIGHLIGHTS:

- Very Fast Acting
- Current Limiting
- Low  $I^2t$
- Indicator Options Available

### APPLICATIONS:

- Protection of DC drives, UPS and other equipment of 500 volts or less



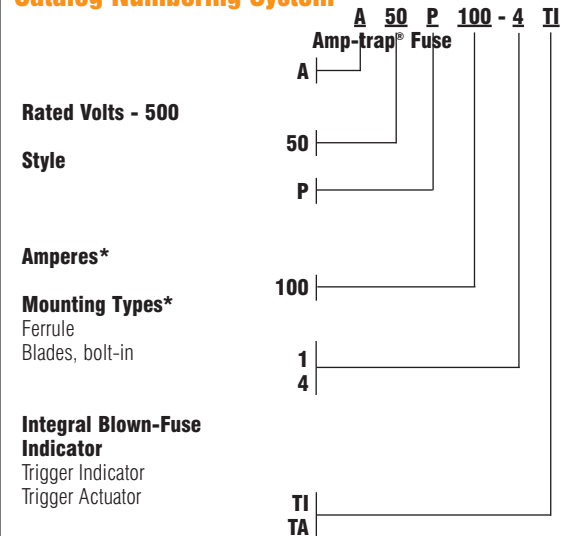
### Single Pole Fuse Blocks for A50P Fuses

| FUSE AMPERE RATING | MOUNTING TYPE | FUSE BLOCK CATALOG NUMBER |
|--------------------|---------------|---------------------------|
| 10-30              | 1             | 70316                     |
| 35-60              | 4             | P243G                     |
| 70-200             | 4             | P243E                     |
| 225-600            | 4             | P266C                     |



\* Contact technical services for applications data.

### Catalog Numbering System



\* For ampere ratings and types not listed, consult the factory.

# A50P

## SEMICONDUCTOR PROTECTION FUSES

### Standard Fuse Ampere Ratings, Catalog Numbers

| AMPERE RATING | CATALOG NUMBER | OUTLINE FIG. | AMPERE RATING | CATALOG NUMBER | OUTLINE FIG. | AMPERE RATING | CATALOG NUMBER | OUTLINE FIG. |
|---------------|----------------|--------------|---------------|----------------|--------------|---------------|----------------|--------------|
| 10            | A50P10-1       | 1            | 175           | A50P175-4      | 3            | 450           | A50P450-4      | 3            |
| 15            | A50P15-1       | 1            | 175           | A50P175-4TI    | 3            | 450           | A50P450-4TI    | 3            |
| 20            | A50P20-1       | 1            | 200           | A50P200-4      | 3            | 500           | A50P500-4      | 3            |
| 25            | A50P25-1       | 1            | 200           | A50P200-4TA    | 4            | 500           | A50P500-4TI    | 3            |
| 30            | A50P30--1      | 1            | 200           | A50P200-4TI    | 3            | 600           | A50P600-4      | 3            |
| 35            | A50P35-4       | 2            | 225           | A50P225-4      | 3            | 600           | A50P600-4TA    | 4            |
| 40            | A50P40-4       | 2            | 250           | A50P250-4      | 3            | 600           | A50P600-4TI    | 3            |
| 50            | A50P50-4       | 2            | 250           | A50P250-4TA    | 4            | 700           | A50P700-4      | 5            |
| 60            | A50P60-4       | 2            | 250           | A50P250-4TI    | 3            | 700           | A50P700-4TA    | 6            |
| 70            | A50P70-4       | 3            | 275           | A50P275-4      | 3            | 700           | A50P700-4TI    | 5            |
| 80            | A50P80-4       | 3            | 300           | A50P300-4      | 3            | 800           | A50P800-4      | 5            |
| 90            | A50P90-4       | 3            | 300           | A50P300-4TA    | 4            | 800           | A50P800-4TA    | 6            |
| 100           | A50P100-4      | 3            | 300           | A50P300-4TI    | 3            | 800           | A50P800-4TI    | 5            |
| 100           | A50P100-4TI    | 3            | 325           | A50P325-4      | 3            | 900           | A50P900-4      | 3            |
| 125           | A50P125-4      | 3            | 350           | A50P350-4      | 3            | 1000          | A50P1000-4     | 3            |
| 125           | A50P125-4TA    | 4            | 350           | A50P350-4TI    | 3            | 1000          | A50P1000-4TI   | 3            |
| 125           | A50P125-4TI    | 3            | 400           | A50P400-4      | 3            | 1200          | A50P1200-4     | 3            |
| 150           | A50P150-4      | 3            | 400           | A50P400-4TA    | 4            | 1200          | A50P1200-4TI   | 3            |
| 150           | A50P150-4TI    | 3            | 400           | A50P400-4TI    | 3            |               |                |              |

For ampere ratings and styles not listed, call Technical Services.

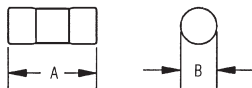


Figure 1

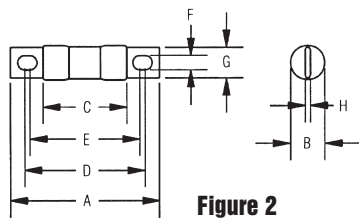


Figure 2

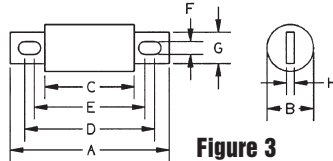


Figure 3

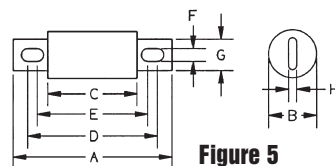


Figure 5

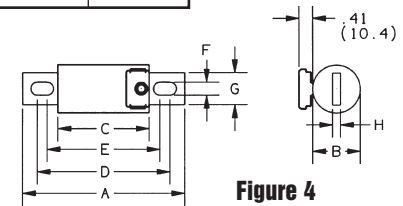


Figure 4

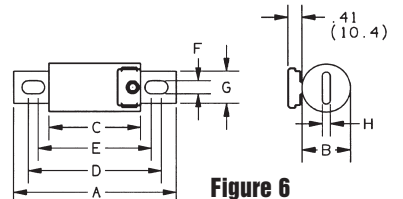


Figure 6

### Dimensions

| OUTLINE REF.    | MOUNTING TYPE | FIG.   | DIMENSIONS - INCHES (mm) |                |                |                |                |                |                |                |   |
|-----------------|---------------|--------|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|
|                 |               |        | A                        | B              | C              | D              | E              | F              | G              | H              |   |
| A50P10 to 30    | 1             | 1      | 2.00<br>(50.8)           | 0.56<br>(14.2) | -              | -              | -              | -              | -              | -              | - |
| A50P35 to 60    | 1DS*          | 1      | 2.25<br>(57.2)           | 0.81<br>(20.6) | -              | -              | -              | -              | -              | -              | - |
| A50P35 to 60    | 4             | 2      | 3.19<br>(81.0)           | 0.81<br>(20.6) | 1.63<br>(41.4) | 2.50<br>(63.5) | 2.25<br>(57.2) | 0.34<br>(8.6)  | 0.72<br>(18.3) | 0.13<br>(3.3)  |   |
| A50P70 to 100   | 4             | 3      | 3.63<br>(92.2)           | 1.00<br>(25.4) | 2.13<br>(54.1) | 2.94<br>(74.7) | 2.81<br>(71.4) | 0.31<br>(7.9)  | 0.75<br>(19.1) | 0.13<br>(3.3)  |   |
| A50P125 to 200  | 4, 4TA**      | 3, 4** | 3.63<br>(92.2)           | 1.22<br>(31.0) | 2.13<br>(54.1) | 2.94<br>(74.7) | 2.81<br>(71.4) | 0.31<br>(7.9)  | 1.00<br>(25.4) | 0.19<br>(4.8)  |   |
| A50P225 to 400  | 4, 4TA**      | 3, 4** | 4.34<br>(110)            | 1.50<br>(38.1) | 2.09<br>(53.1) | 3.41<br>(86.6) | 2.78<br>(70.6) | 0.41<br>(10.4) | 1.00<br>(25.4) | 0.25<br>(6.4)  |   |
| A50P450 to 600  | 4, 4TA**      | 3, 4** | 4.47<br>(114)            | 2.00<br>(50.8) | 2.22<br>(56.4) | 3.53<br>(89.7) | 2.91<br>(73.9) | 0.41<br>(10.4) | 1.50<br>(38.1) | 0.25<br>(6.4)  |   |
| A50P700 to 800  | 4, 4TA**      | 5, 6** | 6.47<br>(164)            | 2.50<br>(63.5) | 2.22<br>(56.4) | 4.63<br>(118)  | 4.31<br>(109)  | 0.53<br>(13.5) | 2.00<br>(50.8) | 0.38<br>(9.7)  |   |
| A50P900 to 1200 | 4             | 3      | 6.97<br>(177)            | 3.00<br>(76.2) | 3.22<br>(81.8) | 4.97<br>(126)  | ***            | 0.63<br>(16.0) | 2.38<br>(60.5) | 0.44<br>(11.1) |   |

\* Use with 60306J fuse block.  
 \*\* Optional Trigger Actuator (TA)  
 \*\*\* Mounting hole is round, diameter F.