

# Multifuse® Product Selection Worksheet

To select the correct Multifuse® resettable fuse, complete the information below, and refer to the relevant Multifuse product family page.

- Determine the **NORMAL** operating current ( $I_{hold}$ ): \_\_\_\_\_ Amps
- Determine the **MAXIMUM** circuit voltage ( $V_{max}$ ): \_\_\_\_\_ Volts
- Determine the **MAXIMUM** fault current ( $I_{max}$ ): \_\_\_\_\_ Amps
- Determine the **OPERATING TEMPERATURE** range  
 min. \_\_\_\_\_ °C  
 max. \_\_\_\_\_ °C
- Which form factor is the most suitable for the application:

### Radial Leaded Through-Hole

- MF-R010 through MF-R090 .....  $I_{hold}$  of 100 mAmps - 900 mAmps and ( $V_{max}$ ) of 60.0 volts
- MF-RX110 through MF-RX375 .....  $I_{hold}$  of 1.10 Amps - 3.75 Amps and ( $V_{max}$ ) of 60.0 volts
- MF-R110 through MF-R1100 .....  $I_{hold}$  of 1.1 Amps - 11.0 Amps and ( $V_{max}$ ) of 30.0 volts

### Surface Mount

- MF-SM030 through MF-SM260 .....  $I_{hold}$  of 300 mAmps - 2.6 Amps
- MF-MSMD010 through MF-MSMD260 .....  $I_{hold}$  of 140 mAmps - 2.60 Amps
- MF-ESMD190 through MF-MSMD450 .....  $I_{hold}$  of 1.9 Amps - 4.50 Amps
- MF-USMD005 through MF-USMD110 .....  $I_{hold}$  of 0.05 Amps - 1.10 Amps

### Telecom Products

- MF-R/250 .....  $I_{hold}$  of 0.12 - 0.18 Amps and ( $V_{max}$ ) of 60.0 volts with surge capability of 250 volts
- MF-SM013/250 .....  $I_{hold}$  of 0.13 Amps with surge capability of 250 volts

### Axial Leaded Battery Strap

- MF-S120 through MF-S420 .....  $I_{hold}$  of 1.2 Amps - 4.2 Amps
- MF-LS070 through MF-LS340 .....  $I_{hold}$  of 0.7 Amps - 3.4 Amps
- MF-LR190 through MF-LR730 .....  $I_{hold}$  of 1.9 Amps - 7.3 Amps
- MF-VS170 through MF-VS210 .....  $I_{hold}$  of 1.70 Amps - 2.10 Amps

### Battery Cap

- MF-AAA170 and MF-AAA210 .....  $I_{hold}$  of 1.7 Amps - 2.1 Amps

### Disk

- MF-D ..... Consult factory

- Check that the maximum ratings for  $V_{max}$  and  $I_{max}$  of the product family chosen is higher than the maximum circuit voltage and fault current in the application.
- Using the Thermal Derating Chart on the data sheets, select the Multifuse device at the maximum operating temperature with an  $I_{hold}$  greater than or equal to the normal operating current.
- Order samples and test in the application. Lab Design Kits for most Multifuse® product lines are available. Contact your nearest Bourns sales office for more information.