

Fuses and Fuseholders

SELECTING A FUSE

1. Current Rating. This is dependent upon:
 - a. Overload or short-circuit protection.
Generally, select the fuse rating to be 125% of the full load current for operation at an ambient of 25°C.
 - b. Short-circuit protection only. Select the fuse rating to be 150% to 300% of equipment or circuit rating for operation at an ambient of 25°C.
2. Voltage Rating. For general circuit protection, the voltage rating of the fuse should be equal to, or greater than the circuit voltage of the circuit in which the fuse is applied.
3. Fusing Characteristics. The fuse time/current characteristic should be compatible with the time/current characteristic of the load and the time/current characteristic of the circuit components to be protected.
 - a. Select a NORMAL BLOW fuse for resistive loads or other loads where no transients or surges are encountered.
Where protection against short circuit only is required, a NORMAL BLOW fuse rather than a SLOW BLOW fuse can be used. Select the highest current rating possible to prevent normal switching surges, transient spikes, etc, from causing premature fuse failure.
 - b. Select a SLOW BLOW fuse where protection against a sustained overload current greater than 50% of normal load is required and high inrush or starting loads are present, as in capacitive or motor circuits.
 - c. Test the selected fuse in the intended circuit under all normal circuit conditions that may include transient, inrush, or any other non-steady-state currents.



FUSE SPECIFICATIONS

5x20mm

- GFE** Normal Blow 50mA - 20A
UL/CSA approved for ratings <= 10A
135% 1 hour max.
200% 5 sec max.
- GSL** Slow Blow 100 - 500mA
UL/CSA approved
135% 1 hour max.
200% 5 - 120 sec
- GTE** Slow Blow 600mA - 10A
UL/CSA approved
135% 1 hour max.
200% 2 - 120 sec
- UFE** Normal Blow 32mA - 16A
SEMKO/VDE/BSI approved for ratings <= 6.3A
150% 1 hour min.
210% 30 mins max.
275% 10-500ms (32mA-100mA)
50ms-2 sec (125mA-6.3A)
- UTE** Slow Blow 500mA - 10A
SEMKO/VDE/BSI approved for ratings <= 6.3A
150% 60 mins min. (500mA-6.3A)
30 mins min. (8-10A)
210% 2 mins max. (500mA-6.3A)
5 mins max. (8-10A)
275% 0.6 - 10 sec

Others

- PFP** Pico 50mA - 15A
UL/CSA approved for ratings <= 8A
150% 10 mins max.
200% 1 min max.
- ATQ** Automotive Blade 3 - 30 A

All types ex stock except the UFE and UTE.

Other types also available:-

- * SMT
- * Other approvals
- * Other physical sizes inc. 4.5x14.5mm, 0.25x1" and 20.3x38.1mm
- * Axial and radial leads for direct PCB mounting
- * Ceramic
- * High breaking capacity

For more information, please contact our sales office .

0.25x1.25"

- AFE** Normal Blow 100mA - 30A
UL/CSA approved for ratings <= 30A
135% 1 hour max.
200% 5 sec max.
- ADL** Slow Blow 100 - 500mA and 10 - 30A
UL/CSA approved for ratings 200mA - 10A
135% 1 hour max.
200% 5 - 120 sec (<=3A)
12 - 120 sec (> 3A)
- ATE** Slow Blow 600mA - 8A
UL/CSA approved
135% 1 hour max.
200% 2 - 120 sec



Current ratings normally stocked*

50mA	1A	10A
100mA	1.25A	15A
125mA	1.5A	20A
150mA	1.6A	25A
200mA	2A	30A
250mA	2.5A	
300mA	3A	
315mA	3.5A	
400mA	4A	
500mA	5A	
600mA	6A	
630mA	6.3A	
750mA	7.5A	
800mA	8A	

*Varies according to fuse type