

## LA50QS Semiconductor Fuses

500 VAC • Very Fast Acting • 35 – 1200 Amperes



In response to new equipment requirements, Littelfuse LA50QS series fuses were developed to improve the overall performance of semiconductor fuses. The LA50QS provides the best protection features including lower I<sup>2</sup>t, longer life when subjected to cyclic loading and lower watts loss. LA50QS is today's choice for the protection of dynamic solid state equipment.

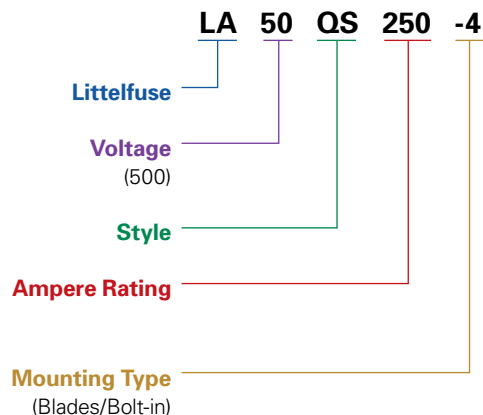
### Features

- Lowest I<sup>2</sup>t for greatest protection of semiconductor circuits.
- Low watts loss for cooler operation.
- Superior cycling ability gives an equipment design advantage.
- State-of-the-art protection for 500 volt equipment.
- Ultra compact sizes allow down-sizing of existing equipment.

### Applications

Protection of 500 volts or less solid state equipment such as motor drives, UPS, inverters, etc.

### Ordering Information



### Specifications

- |                             |  |
|-----------------------------|--|
| <b>Voltage Rating:</b>      | AC: 500 volts<br>DC: 500 volts                               |
| <b>Interrupting Rating:</b> | AC: 200,000 Amperes<br>DC: 100,000 Amperes                   |
| <b>Ampere Range:</b>        | 35 – 1200 Amperes  |
| <b>Approvals:</b>           | UL Recognized under the components program<br>CSA Certified. |

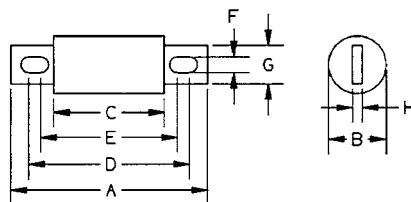
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### Catalog Numbers & Technical Data

Ampere Rating	Littelfuse Catalog Number	Mounting Type	Maximum Clearing I <sup>2</sup> t @500 VAC (A <sup>2</sup> S x 10 <sup>3</sup> )	Watts Loss @ Rated Current (W)
35	LA50QS35-4	4	0.56	6
40	LA50QS40-4	4	0.69	7
50	LA50QS50-4	4	1.1	8
60	LA50QS60-4	4	1.8	10
70	LA50QS70-4	4	1.9	12
80	LA50QS80-4	4	2.6	14
90	LA50QS90-4	4	3.6	15
100	LA50QS100-4	4	4.4	17
125	LA50QS125-4	4	5.6	21
150	LA50QS150-4	4	9	25
175	LA50QS175-4	4	15	29
200	LA50QS200-4	4	20	33
225	LA50QS225-4	4	25	37

Ampere Rating	Littelfuse Catalog Number	Mounting Type	Maximum Clearing I <sup>2</sup> t @500 VAC (A <sup>2</sup> S x 10 <sup>3</sup> )	Watts Loss @ Rated Current (W)
250	LA50QS250-4	4	29	41
300	LA50QS300-4	4	55	49
350	LA50QS350-4	4	88	57
400	LA50QS400-4	4	98	65
450	LA50QS450-4	4	130	69
500	LA50QS500-4	4	160	77
600	LA50QS600-4	4	220	92
700	LA50QS700-4	4	270	110
800	LA50QS800-4	4	360	130
900	LA50QS900-4	4	500	140
1000	LA50QS1000-4	4	560	160
1200	LA50QS1200-4	4	930	175



### Dimensions

Dimensions for reference only.

Amperes	Mount. Type	Dimensions in Inches (mm in parentheses)							
		A	B	C	D	E	F	G	H
35 – 100	4	3.63 (92.2)	1.00 (25.4)	2.13 (54.1)	2.94 (74.7)	2.75 (69.9)	0.31 (7.9)	0.75 (19.1)	0.13 (3.3)
125 – 200	4	3.63 (92.2)	1.22 (31.0)	2.13 (54.1)	2.94 (74.7)	2.81 (71.4)	0.31 (7.9)	1.00 (25.4)	0.19 (4.8)
225 – 400	4	4.34 (110)	1.50 (38.1)	2.09 (53.1)	3.41 (86.6)	2.78 (70.6)	0.41 (10.4)	1.00 (25.4)	0.25 (6.4)
450 – 600	4	4.47 (114)	2.00 (50.8)	2.22 (56.4)	3.53 (89.7)	2.91 (73.9)	0.41 (10.4)	1.50 (38.1)	0.25 (6.4)
700 – 800	4	6.47 (164.3)	2.50 (63.5)	2.22 (56.4)	5.00 (127.0)	3.44 (87.3)	0.53 (13.5)	1.50 (38.1)	0.25 (6.4)
900 – 1200	4	6.97 (177.0)	3.00 (76.2)	3.22 (81.8)	5.47 (138.9)	4.47 (113.5)	0.63 (15.9)	2.38 (60.3)	0.44 (11.1)

Contact Littelfuse for characteristic curves.