TRADITIONAL SEMICONDUCTOR FUSES

150/250/500/600/700 VAC • Very Fast-Acting • 1 – 1200 Amperes

AMPERE RATINGS	SERIES & VOLTAGE RATINGS					
	L15S 150 VAC 150 VDC (1 – 60 A) 100 VDC (70 – 1000 A)	L25S 250 VAC 250 VDC (1 – 200 A) 200 VDC (225 – 800 A)	L50S 500 VAC 450 VDC	L60S 600 VAC	KLC‡ 600 VAC	L70S 700 VAC 650 VDC
1	L15S 1	L25S 1	–	L60S 1	KLC 1	–
2	L15S 2	L25S 2	–	L60S 2	KLC 2	–
3	L15S 3	L25S 3	–	L60S 3	KLC 3	–
4	L15S 4	L25S 4	–	L60S 4	KLC 4	–
5	L15S 5	L25S 5	–	L60S 5	KLC 5	–
6	L15S 6	L25S 6	–	L60S 6	KLC 6	–
7	L15S 7	–	–	–	KLC 7	–
8	L15S 8	L25S 8	–	L60S 8	KLC 8	–
9	L15S 9	–	–	–	–	–
10	L15S 10	L25S 10	L50S 10	L60S 10	KLC 10	L70S 10
12	L15S 12	L25S 12	L50S 12	L60S 12	KLC 12	–
15	L15S 15	L25S 15	L50S 15	L60S 15	KLC 15	L70S 15
17½	–	–	–	L60S 17½	KLC 17½	–
20	L15S 20	L25S 20	L50S 20	L60S 20	KLC 20	L70S 20
25	L15S 25	L25S 25	L50S 25	L60S 25	KLC 25	L70S 25
30	L15S 30	L25S 30	L50S 30	L60S 30	KLC 30	L70S 30
35	L15S 35	L25S 35	L50S 35	L60S 35	KLC 35	L70S 35
40	L15S 40	L25S 40	L50S 40	L60S 40	KLC 40	L70S 40
45	L15S 45	L25S 45	–	L60S 45	KLC 45	–
50	L15S 50	L25S 50	L50S 50	L60S 50	KLC 50	L70S 50
60	L15S 60	L25S 60	L50S 60	L60S 60	KLC 60	L70S 60
70	L15S 70	L25S 70	L50S 70	L60S 70	KLC 70	L70S 70
80	L15S 80	L25S 80	L50S 80	L60S 80	KLC 80	L70S 80
90	L15S 90	L25S 90	L50S 90	L60S 90	KLC 90	L70S 90
100	L15S 100	L25S 100	L50S 100	L60S 100	KLC 100	L70S 100
110	–	–	–	–	KLC 110	–
125	L15S 125	L25S 125	L50S 125	L60S 125	KLC 125	L70S 125
150	L15S 150	L25S 150	L50S 150	L60S 150	KLC 150	L70S 150
175	–	L25S 175	L50S 175	L60S 175	KLC 175	L70S 175
200	L15S 200	L25S 200	L50S 200	L60S 200	KLC 200	L70S 200
225	–	L25S 225	L50S 225	L60S 225	KLC 225	L70S 225
250	L15S 250	L25S 250	L50S 250	L60S 250	KLC 250	L70S 250
275	–	L25S 275	L50S 275	–	–	–
300	L15S 300	L25S 300	L50S 300	L60S 300	KLC 300	L70S 300
350	L15S 350	L25S 350	L50S 350	L60S 350	KLC 350	L70S 350
400	L15S 400	L25S 400	L50S 400	L60S 400	KLC 400	L70S 400
450	L15S 450	L25S 450	L50S 450	L60S 450	KLC 450	L70S 450
500	L15S 500	L25S 500	L50S 500	L60S 500	KLC 500	L70S 500
550	–	–	L50S 550	–	–	–
600	L15S 600	L25S 600	L50S 600	L60S 600	KLC 600	L70S 600
700	–	L25S 700	L50S 700	L60S 700	KLC 700	L70S 700
800	L15S 800	L25S 800	L50S 800	L60S 800	KLC 800	L70S 800
900	–	–	LA50P9004	–	–	LA70P9004
1000	L15S 1000	–	LA50P10004	–	–	LA70P10004
1200	–	–	LA50P12004	–	–	LA70P12004

‡ KLC series fuses are recommended for replacement use only.

Specifications

Voltage Ratings:

L15S:	150 VAC/DC (1 – 60 A) 150 VAC (70 – 1000 A) 100 VDC (70 – 1000 A)
L25S:	250 VAC/DC (1 – 200 A) 250 VAC (225 – 800 A) 200 VDC (225 – 800 A)
L50S:	500 VAC/450 VDC
L60S:	600 VAC
KLC:	600 VAC
L70S:	700 VAC/650 VDC

L25S series fuses are Littelfuse Certified for DC ratings shown in Rating Table.

Interrupting Rating:

AC:	200 kA rms (L15S series 100 kA)
DC:	20 kA

Ampere Range:
1 – 1200 A
See Rating Table for ratings available in each series.

Approvals:
UL Recognized (File No. E71611)
CSA Recognized (File No. LR29862)

Recommended Fuseholders

1LFS101/1LFS102 ..... pg. 121
LSCR001/LSCR002 ..... pg. 120

Web Resources

For additional information, visit:
www.littelfuse.com/semi

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TRADITIONAL SEMICONDUCTOR FUSES

150/250/500/600/700 VAC • Very Fast-Acting • 1-1000 Amperes

L15S Series, 150 Volts AC

AMPERE RATING	FIG. NO.	DIMENSIONS IN INCHES (mm)							
		A	B	C	D	E	F	G	H
1 – 30	1	1½ (38.1)	—	⅜ (9.5)	13/32 (10.3)	—	—	—	—
31 – 60	1	2 (50.8)	—	⅝ (15.9)	13/16 (20.6)	—	—	—	—
61 – 450	3	1 5/32 (29.4)	1⅞ (47.6)	2 3/16 (55.6)	2 21/32 (67.5)	1 (25.4)	43/64 (17.1)	5/16 (7.9)	3/16 (4.8)
451 – 1000	3	1¼ (31.8)	1 15/16 (49.2)	2 9/16 (65.1)	3½ (88.9)	1½ (38.1)	1 (25.4)	13/32 (10.3)	¼ (6.4)

L25S Series, 250 Volts AC

AMPERE RATING	FIG. NO.	DIMENSIONS IN INCHES (mm)							
		A	B	C	D	E	F	G	H
1 – 30	1	2 (50.8)	—	½ (12.7)	9/16 (14.3)	—	—	—	—
31 – 60	2	1⅝ (41.3)	2¼ (57.2)	2½ (63.5)	3 3/16 (81.0)	13/16 (20.6)	23/32 (18.3)	11/32 (8.7)	⅛ (3.2)
61 – 200	3	1⅝ (41.3)	2 5/16 (58.7)	2 7/16 (61.9)	3⅛ (79.4)	1 7/32 (31.0)	1 (25.4)	5/16 (7.9)	3/16 (4.8)
201 – 700	3	1 19/32 (40.5)	2 9/32 (57.9)	2 29/32 (73.8)	3 27/32 (97.6)	1½ (38.1)	1 (25.4)	13/32 (10.3)	¼ (6.4)
701 – 800	3	1 19/32 (40.5)	2 9/32 (57.9)	2 29/32 (73.8)	3 27/32 (97.6)	2 (50.8)	1½ (38.1)	13/32 (10.3)	¼ (6.4)

L50S Series, 500 Volts AC / 450 Volts DC

AMPERE RATING	FIG. NO.	DIMENSIONS IN INCHES (mm)							
		A	B	C	D	E	F	G	H
10 – 30	1	2 (50.8)	—	½ (12.7)	9/16 (14.3)	—	—	—	—
31 – 60	2	1⅝ (41.3)	2¼ (57.2)	2½ (63.5)	3 3/16 (81.0)	13/16 (20.6)	23/32 (18.3)	11/32 (8.7)	⅛ (3.2)
61 – 100	3	2⅛ (54.0)	2 11/16 (68.3)	3 (76.2)	3⅝ (92.1)	1 (25.4)	¾ (19.1)	11/32 (8.7)	⅛ (3.2)
101 – 200	3	2⅛ (54.0)	2 13/16 (71.4)	2 15/16 (74.6)	3⅝ (92.1)	1 7/32 (31.0)	1 (25.4)	5/16 (7.9)	3/16 (4.8)
201 – 400	3	2 3/32 (53.2)	2 25/32 (70.6)	3 13/32 (86.5)	4 11/32 (110.3)	1½ (38.1)	1 (25.4)	13/32 (10.3)	¼ (6.4)
401 – 600	3	2 7/32 (56.4)	2 29/32 (73.8)	3 17/32 (89.7)	4 15/32 (113.5)	2 (50.8)	1½ (38.1)	13/32 (10.3)	¼ (6.4)
601 – 800	3	2 7/32 (56.4)	4 9/32 (108.7)	4⅝ (117.5)	6 15/32 (164.3)	2½ (63.5)	2 (50.8)	17/32 (13.5)	⅜ (9.5)

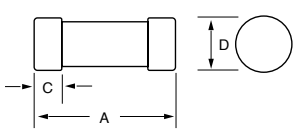
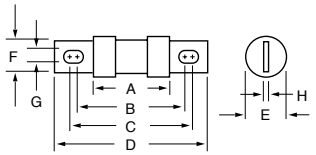


Fig. 1



Fig, 2

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NORTH AMERICAN SEMICONDUCTOR FUSES

150/250/500/600/700 VAC • Very Fast-Acting • 1-1000 Amperes

L60S Series, 600 Volts AC

AMPERE RATING	FIG. NO.	DIMENSIONS IN INCHES (mm)							
		A	B	C	D	E	F	G	H
1 – 30	1	5 (127.0)	—	5/8 (15.9)	13/16 (20.6)	—	—	—	—
31 – 60	2	2 25/32 (70.6)	3 7/16 (87.3)	3 11/16 (93.7)	4 3/8 (111.1)	13/16 (20.6)	23/32 (18.3)	11/32 (8.7)	1/8 (3.2)
61 – 100	2	2 29/32 (73.8)	3 17/32 (89.7)	3 25/32 (96.0)	4 15/32 (113.5)	1 1/16 (27.0)	23/32 (18.3)	11/32 (8.7)	1/8 (3.2)
101 – 200	2	2 29/32 (73.8)	3 9/16 (90.5)	3 3/4 (95.3)	4 13/32 (111.9)	1 5/16 (33.3)	1 (25.4)	5/16 (7.9)	3/16 (4.8)
201 – 400	2	2 29/32 (73.8)	3 31/32 (100.8)	4 5/32 (105.6)	5 1/8 (130.2)	1 37/64 (40.1)	1 (25.4)	13/32 (10.3)	1/4 (6.4)
401 – 600	2	2 7/8 (73.0)	3 31/32 (100.8)	4 9/64 (105.2)	5 1/8 (130.2)	2 1/16 (52.8)	1 1/2 (38.1)	13/32 (10.3)	1/4 (6.4)
601 – 800	2	3 1/32 (77.0)	5 5/32 (133.4)	5 11/32 (135.7)	7 1/4 (184.2)	2 1/2 (63.5)	2 (50.8)	17/32 (13.5)	3/8 (9.5)

L70S Series, 700 Volts AC/600 Volts DC

AMPERE RATING	FIG. NO.	DIMENSIONS IN INCHES (mm)								
		A	B	C	D	E	F	G	H	J
10 – 30	1	2 (50.8)	—	1/2 (12.7)	9/16 (14.3)	—	—	—	—	—
31 – 60	3	2 7/8 (73.0)	3 7/16 (87.3)	3 25/32 (96.0)	4 3/8 (111.1)	1 (25.4)	43/64 (17.1)	11/32 (8.7)	1/8 (3.2)	—
61 – 100	3	2 7/8 (73.0)	3 9/16 (90.5)	3 11/16 (93.7)	4 3/8 (111.1)	1 7/32 (31.0)	29/32 (22.9)	5/16 (7.9)	3/16 (4.8)	—
101 – 200	3	2 27/32 (72.2)	3 17/32 (89.7)	4 5/32 (105.6)	5 3/32 (129.4)	1 1/2 (38.1)	1 (25.4)	13/32 (10.3)	1/4 (6.4)	—
201 – 400	3	2 27/32 (72.2)	3 17/32 (89.7)	4 5/32 (105.6)	5 3/32 (129.4)	2 (50.8)	1 1/2 (38.1)	13/32 (10.3)	1/4 (6.4)	—
401 – 600	3	2 27/32 (72.2)	4 29/32 (124.6)	5 1/4 (133.4)	7 3/32 (180.2)	2 1/2 (63.5)	2 (50.8)	17/32 (13.5)	3/8 (9.5)	—
601 – 800	4	3 5/16 (84.1)	5 5/16 (134.9)	6 13/16 (173.0)	—	2 7/8 (73.0)	2 (50.8)	5/8 (15.9)	3/8 (9.5)	5/16 (7.9)

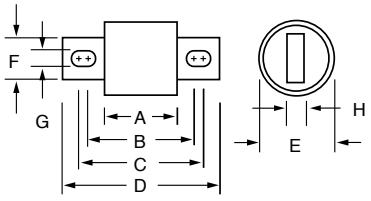

Fig. 3

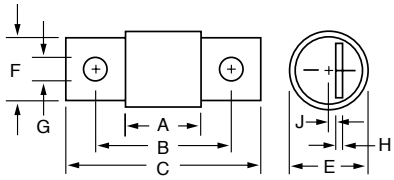

Fig. 4

KLC Series, 600 Volts AC

AMPERE RATING	FIG. NO.	DIMENSIONS IN INCHES (mm)							
		A	B	C	D	E	F	G	H
1 – 30	2	1 7/8 (47.6)	2 1/2 (63.5)	—	2 7/8 (73.0)	9/16 (14.3)	13/32 (10.3)	1/4 (6.4)	3/64 (1.2)
31 – 60	2	2 3/4 (69.9)	3 3/8 (85.7)	3 5/8 (92.1)	4 5/16 (109.5)	13/16 (20.6)	23/32 (18.3)	11/32 (8.7)	1/8 (3.2)
61 – 100	3	2 7/8 (73.0)	3 21/32 (92.9)	4 1/16 (103.2)	5 (127.0)	1 (25.4)	3/4 (19.1)	13/32 (10.3)	1/8 (3.2)
101 – 200	3	2 27/32 (72.2)	3 17/32 (89.7)	4 3/8 (111.1)	5 3/32 (129.4)	1 1/2 (38.1)	1 (25.4)	13/32 (10.3)	1/4 (6.4)
201 – 400	3	2 27/32 (72.2)	4 21/32 (118.3)	4 27/32 (123.0)	6 1/4 (158.8)	2 (50.8)	1 5/8 (41.3)	9/16 (14.3)	1/4 (6.4)
401 – 800	3	2 27/32 (72.2)	4 21/32 (118.3)	5 11/32 (135.7)	6 1/4 (158.8)	2 1/2 (63.5)	2 (50.8)	9/16 (14.3)	3/8 (9.5)

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ALTERNATE DIMENSION SEMICONDUCTOR FUSES

150 VAC • Very Fast-Acting • 1-6000 Amperes

LA15QS Series

AMPERE RATING	LITTELFUSE CATALOG NUMBER	MOUNTING TYPE	MAXIMUM CLEARING I^2t @150 VAC ($A^2S \times 10^3$)	WATTS LOSS @ RATED CURRENT (W)
1	LA15QS1-2	2	0.0002	0.68
2	LA15QS2-2	2	0.001	1.3
3	LA15QS3-2	2	0.003	1.7
4	LA15QS4-2	2	0.007	2.1
5	LA15QS5-2	2	0.012	2.8
6	LA15QS6-2	2	0.022	3.1
7	LA15QS7-2	2	0.011	2.2
8	LA15QS8-2	2	0.015	2.5
10	LA15QS10-2	2	0.019	2.6
12	LA15QS12-2	2	0.030	3
15	LA15QS15-2	2	0.042	3
20	LA15QS20-2	2	0.072	4
25	LA15QS25-2	2	0.14	5.2
30	LA15QS30-2	2	0.25	5.6
35	LA15QS35-1	1	0.21	9
40	LA15QS40-1	1	0.28	10
40	LA15QS40-4TI	4TI	0.39	3.1
45	LA15QS45-1	1	0.34	12
50	LA15QS50-1	1	0.47	13
50	LA15QS50-4	4	0.64	4
55	LA15QS55-1	1	Contact Factory	Contact Factory
60	LA15QS60-1	1	0.94	14
70	LA15QS70-4	4	2	5.6
70	LA15QS70-4TI	4TI	2	5.6
80	LA15QS80-4	4	2.5	8
80	LA15QS80-4TI	4TI	2.5	8
90	LA15QS90-4	4	3.1	9
100	LA15QS100-4	4	3.6	10
100	LA15QS100-4TI	4TI	3.6	10
130	LA15QS130-4	4	5.3	14
130	LA15QS130-4TI	4TI	5.3	14
150	LA15QS150-4	4	6.8	16
150	LA15QS150-4IL	4IL	6.8	16
150	LA15QS150-4TI	4TI	6.8	16
200	LA15QS200-4	4	9	22
200	LA15QS200-4IL	4IL	9	22
250	LA15QS250-4	4	15	22
250	LA15QS250-4TI	4TI	15	27
300	LA15QS300-4	4	22	33
300	LA15QS300-4IL	4IL	22	33
300	LA15QS300-4TL	4TI	22	33
350	LA15QS350-4	4	32	40
350	LA15QS350-4TI	4TI	32	40
400	LA15QS400-4	4	40	45
400	LA15QS400-4IL	4IL	40	45
400	LA15QS400-4TI	4TI	40	45
450	LA15QS450-4	4	50	50
450	LA15QS450-4IL	4IL	50	50
500	LA15QS500-4	4	90	30
500	LA15QS500-4IL	4IL	90	30
600	LA15QS600-4	4	130	35
600	LA15QS600-4IL	4IL	130	35
800	LA15QS800-4	4	290	57
1000	LA15QS1000-4	4	520	75
1000	LA15QS1000-4IL	4IL	520	75
1000	LA15QS1000-4TI	4TI	520	75
1000	LA15QS1000-128	128	540	88
1000	LA15QS1000-128IL	128IL	540	88
1200	LA15QS1200-128	128	680	100
1200	LA15QS1200-128IL	128IL	680	100
1500	LA15QS1500-128	128	1200	130
1500	LA15QS1500-128IL	128IL	1200	130
2000	LA15QS2000-128	128	1900	165
2000	LA15QS2000-128IL	128IL	1900	165
2500	LA15QS2500-128	128	3200	195
2500	LA15QS2500-128IL	128IL	3200	195
3000	LA15QS3000-128	128	4800	240
3000	LA15QS3000-128IL	128IL	4800	240
3500	LA15QS3500-128	128	6500	260
4000	LA15QS4000-128	128	8500	270
4000	LA15QS4000-128IL	128IL	8500	270
5000	LA15QS5000-128	128	Contact Factory	Contact Factory
6000	LA15QS6000-128	128	Contact Factory	Contact Factory

Specifications

Voltage Rating: AC: 150 V
DC: 150 V
Interrupting Rating: 100 kA
Ampere Range: 1 – 6000 A
Approvals: UL Recognized

Web Resources

TC Curves, downloadable CAD drawings and other technical information: **www.littelfuse.com/la15qs**

Dimensions

Figure 1

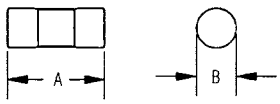


Figure 2

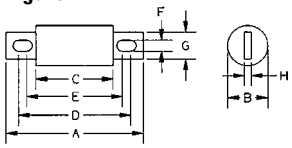


Figure 3

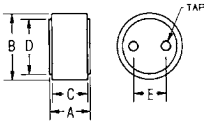


Figure 4

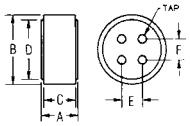
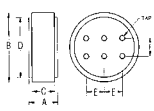


Figure 5



Dimensions for reference only.

AMPERE RATINGS	MOUNTING TYPE	FIGURE NO.	DIMENSIONS IN INCHES (mm IN PARENTHESES)								TAP
			A	B	C	D	E	F	G	H	
1 – 30	2	1	1.50 (38.1)	0.41 (10.4)	–	–	–	–	–	–	–
35 – 60	1	1	2.00 (50.8)	0.81 (20.6)	–	–	–	–	–	–	–
40 – 450	4, 4TI*, 4IL*	2	2.66 (67.6)	1.00 (25.4)	1.16 (29.5)	2.19 (55.6)	1.91 (48.5)	0.31 (7.9)	0.88 (22.4)	0.19 (4.8)	–
500 – 1000	4, 4TI*, 4IL*	2	3.50 (88.9)	1.50 (38.1)	1.25 (31.8)	2.56 (65.0)	1.94 (49.3)	0.41 (10.4)	1.00 (25.4)	0.25 (6.4)	–
750 – 2000	128, 128IL*	3	1.88 (47.9)	2.00 (50.8)	1.63 (41.4)	1.75 (44.5)	1.00 (25.4)	–	–	–	⅜-24-½ deep
2500 – 3000	128, 128IL*	3	1.88 (47.9)	3.00 (76.2)	1.63 (41.4)	2.50 (63.5)	1.50 (38.1)	–	–	–	½-20-½ deep
3500 – 4000	128, 128IL*	4	1.88 (47.9)	3.50 (88.9)	1.63 (41.4)	3.00 (76.2)	1.06 (27.0)	1.06 (27.0)	–	–	½-20-½ deep
5000 – 6000	128	5	2.38 (60.5)	5.75 (146)	1.88 (47.7)	5.00 (127)	1.50 (38.1)	1.50 (38.1)	–	–	½-20-½ deep

*Optional Trigger Actuator (IL). Optional Trigger Indicator (TI) see web for dimensions.

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ALTERNATE DIMENSION SEMICONDUCTOR FUSES

300 VAC • Very Fast-Acting • 35-4500 Amperes

LA30QS Series

AMPERE RATING	LITTELFUSE CATALOG NUMBER	MOUNTING TYPE	MAXIMUM CLEARING I^2T @300 VAC ($A^2S \times 10^3$)	WATTS LOSS @ RATED CURRENT (W)
35	LA30QS35-4	4	0.9	6.4
40	LA30QS40-4	4	1.2	7
50	LA30QS50-4	4	2	9.9
60	LA30QS60-4	4	2.7	11.6
70	LA30QS70-4	4	1.6	11
80	LA30QS80-4	4	2.6	11
90	LA30QS90-4	4	3.2	13
100	LA30QS100-4	4	4.1	13
100	LA30QS100-4TI	4TI	4.1	13
125	LA30QS125-4	4	6.3	16
130	LA30QS130-4	4	6.3	16
150	LA30QS150-4	4	9.3	19
150	LA30QS150-4TI	4TI	9.3	19
175	LA30QS175-4	4	10	27
200	LA30QS200-4	4	15	30
200	LA30QS200-4TI	4TI	15	30
225	LA30QS225-4	4	22	33
250	LA30QS250-4	4	25	41
250	LA30QS250-4TI	4TI	25	41
300	LA30QS300-4	4	37	47
300	LA30QS300-4TI	4TI	37	47
350	LA30QS350-4	4	62	49
400	LA30QS400-4	4	83	56
400	LA30QS400-4IL	4IL	83	56
400	LA30QS400-4TI	4TI	83	56
450	LA30QS450-4	4	130	53
500	LA30QS500-4	4	160	59
550	LA30QS550-4	4	190	65
600	LA30QS600-4	4	230	69
600	LA30QS600-4TI	4TI	230	69
600	LA30QS600-4IL	4IL	230	69
700	LA30QS700-4	4	260	90
700	LA30QS700-128	128	260	73
800	LA30QS800-4	4	330	108
800	LA30QS800-4IL	4IL	330	108
800	LA30QS800-128	128	330	84
1000	LA30QS1000-128	128	460	105
1000	LA30QS1000-128IL	128IL	460	105
1200	LA30QS1200-128	128	880	110
1500	LA30QS1500-128	128	1400	140
1500	LA30QS1500-128IL	128IL	1400	140
1600	LA30QS1600-128	128	1690	150
2000	LA30QS2000-128	128	2600	190
2000	LA30QS2000-128IL	128IL	2600	190
2500	LA30QS2500-128	128	4000	230
2500	LA30QS2500-128IL	128IL	4000	230
3000	LA30QS3000-128	128	4700	340
3500	LA30QS3500-128	128	6500	380
3500	LA30QS3500-128IL	128IL	6500	380
4000	LA30QS4000-128	128	8600	450
4500	LA30QS4500-128	128	11000	500

Specifications

Voltage Rating: AC: 300 V
DC: 300 V
Interrupting Rating: 200 kA
Ampere Range: 35 – 4500 A
Approvals: UL Recognized

Web Resources

TC Curves, downloadable CAD drawings and other technical information: **www.littelfuse.com/la30qs**

Figure 1

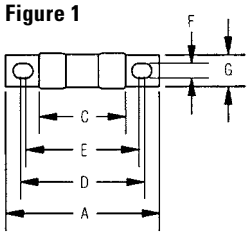


Figure 2

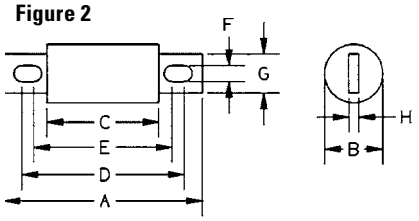


Figure 3

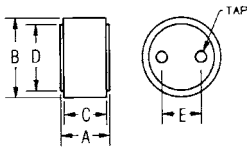
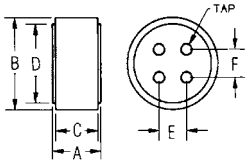


Figure 4



Dimensions

Dimensions for reference only.

AMPERE RATING	MOUNTING TYPE	FIGURE NO.	DIMENSIONS IN INCHES (mm IN PARENTHESES)								TAP
			A	B	C	D	E	F	G	H	
35 – 60	4	1	3.19 (81.0)	0.81 (20.6)	1.63 (41.4)	2.50 (63.5)	2.25 (57.5)	0.34 (8.6)	0.72 (18.3)	0.13 (3.3)	–
70 – 200	4	2	3.13 (79.5)	1.22 (31.0)	1.63 (41.4)	2.44 (62.0)	2.31 (58.7)	0.31 (7.9)	1.00 (25.4)	0.19 (4.8)	–
225 – 700	4, 4IL*	2	3.84 (97.5)	1.50 (38.1)	1.59 (40.1)	2.91 (73.9)	2.28 (57.9)	0.41 (10.4)	1.00 (25.4)	0.25 (6.4)	–
700 – 1200	128	3	2.59 (65.8)	3.00 (76.2)	2.34 (59.4)	2.50 (63.5)	1.50 (38.1)	–	–	–	⅜-24-½ deep
1500 – 2500	128, 128IL*	4	2.59 (65.8)	3.50 (88.9)	2.34 (59.4)	3.00 (76.2)	1.50 (38.1)	1.50 (38.1)	–	–	⅜-24-½ deep
3000 – 4500	128, 128IL*	4	2.59 (65.8)	4.50 (114)	2.34 (59.4)	3.75 (95.3)	1.50 (38.1)	1.50 (38.1)	–	–	½-20-½ deep

*Optional Trigger Actuator (IL). Optional Trigger Indicator (TI) see web for dimensions.

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ALTERNATE DIMENSION SEMICONDUCTOR FUSES

500 VAC • Very Fast-Acting • 35-1200 Amperes

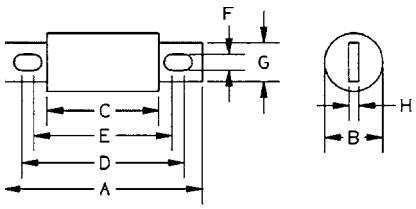
LA50QS Series

AMPERE RATING	LITTELFUSE CATALOG NUMBER	MOUNTING TYPE	MAXIMUM CLEARING I^2T @500 VAC ($A^2S \times 10^3$)	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^2T @500 VAC ($A^2S \times 10^3$)	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

Specifications

Voltage Rating: AC: 500 V
DC: 500 V
Interrupting Rating: AC: 200 kA
DC: 100 kA
Ampere Range: 35 – 1200 A
Approvals: UL Recognized
CSA Certified



Web Resources

TC Curves, downloadable CAD drawings and other technical information: **www.littelfuse.com/la50qs**

Dimensions

Dimensions for reference only.

AMPERE RATING	MOUNTING TYPE	DIMENSIONS IN INCHES (mm)							
		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.

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ALTERNATE DIMENSION SEMICONDUCTOR FUSES

600 VAC/DC • Very Fast-Acting • 5-40 Amperes

LA60Q Series Semiconductor Fuses

AMPERE RATING	LITTELFUSE CATALOG NUMBER	MOUNTING TYPE	MAXIMUM CLEARING I^2T @600 VAC ($A^2S \times 10^3$)	WATTS LOSS @ RATED CURRENT (W)
5	LA60Q5-2	2	60	0.7
8	LA60Q8-2	2	70	1.1
10	LA60Q10-2	2	110	1.6
12	LA60Q12-2	2	150	2
15	LA60Q15-2	2	180	3
20	LA60Q20-2	2	330	4.4
25	LA60Q25-2	2	440	5.5
30	LA60Q30-2	2	860	5.6
35	LA60Q35-2	2	1300	6.4
40	LA60Q40-2	2	1800	7

Specifications

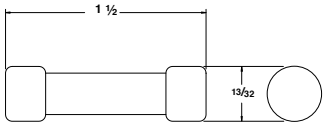
Voltage Rating: AC: 600 V
DC: 600 V
Interrupting Rating: AC: 200 kA
DC: 100 kA
Ampere Range: 5 – 40 A
Approvals: UL Recognized

Contact Littelfuse for characteristic curves.

Description

Littelfuse LA60Q semiconductor protection fuses feature a 600 volt AC/DC rating in a compact size (1 ½" x 13/32"). LA60Q also has the lowest I^2t of all similar fuses and excellent cycling ability. Applications include inverters and small equipment requiring extremely fast response to faults, without the need to carry sustained heavy overloads.

Dimensions in inches



Web Resources

TC Curves, downloadable CAD drawings and other technical information: **www.littelfuse.com/la60qs**

690 VAC/700 VDC • Very Fast-Acting • 10-100 Amperes

LA70QS Series French Cylindrical Fuses

AMPERE RATING	LITTELFUSE CATALOG NUMBER (NO STRIKER)	LITTELFUSE CATALOG NUMBER (WITH STRIKER)	BODY SIZE	MAXIMUM CLEARING I^2T @700 VAC ($A^2S \times 10^3$)	WATTS LOSS @ RATED CURRENT (W)
10	LA70QS10-14F	LA70QS10-14FI	14 x 51	0.04	3.5
12	LA70QS12-14F	LA70QS12-14FI	14 x 51	0.06	4.4
16	LA70QS16-14F	LA70QS16-14FI	14 x 51	0.10	4.8
20	LA70QS20-14F	LA70QS20-14FI	14 x 51	0.16	5.2
25	LA70QS25-14F	LA70QS25-14FI	14 x 51	0.27	5.8
32	LA70QS32-14F	LA70QS32-14FI	14 x 51	1.50	7.0
40	LA70QS40-14F	LA70QS40-14FI	14 x 51	0.70	10.7
50	LA70QS50-14F	LA70QS50-14FI	14 x 51	1.50	11.6
20	LA70QS20-22F	LA70QS20-22FI	22 x 58	0.076	8.0
25	LA70QS25-22F	LA70QS25-22FI	22 x 58	0.125	10.0
32	LA70QS32-22F	LA70QS32-22FI	22 x 58	0.27	11.0
40	LA70QS40-22F	LA70QS40-22FI	22 x 58	0.48	13.0
50	LA70QS50-22F	LA70QS50-22FI	22 x 58	0.80	14.9
63	LA70QS63-22F	LA70QS63-22FI	22 x 58	1.85	16.0
80	LA70QS80-22F	LA70QS80-22FI	22 x 58	3.80	17.8
100	LA70QS100-22F	LA70QS100-22FI	22 x 58	8.00	19.0

Recommended Fuseholders

CYH series for non-striker fuses LA70QS(amp)22F .. pg. 173
CYH1451 series for LA70QS(amp)14F ..... pg. 173

Description

Littelfuse LA70QS semiconductor fuses were developed to provide improved performance required by today's new equipment. The LA70QS features lower I^2t, improved cycling, and lower watts loss. It is the best choice for the protection of dynamic solid-state equipment.

Dimensions in inches (mm)

Please see website for dimensions:
www.littelfuse.com/la70qs

Specifications

Voltage Rating: AC: 690 V
DC: 700 V
Interrupting Rating: AC: 200 kA
DC: 100 kA
Ampere Range: 10 – 100 A
Approvals: UL Recognized
CSA Certified

Web Resources

TC Curves, downloadable CAD drawings and other technical information: **www.littelfuse.com/la70qs**

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ALTERNATE DIMENSION SEMICONDUCTOR FUSES

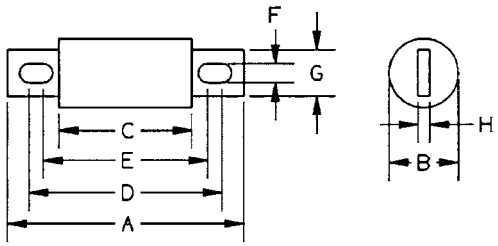
700 VAC/VDC • Very Fast-Acting • 35-800 Amperes

LA70QS Series Semiconductor Fuses

AMPERE RATING	LITTELFUSE CATALOG NUMBER	MOUNTING TYPE	MAXIMUM CLEARING I^2T @700 VAC ($A^2S \times 10^3$)	WATTS LOSS @ RATED CURRENT (W)
35	LA70QS35-4	4	0.47	6.2
40	LA70QS40-4	4	0.58	7.5
50	LA70QS50-4	4	0.88	9.8
60	LA70QS60-4	4	1.2	12
70	LA70QS70-4	4	1.8	15
80	LA70QS80-4	4	2.3	16
90	LA70QS90-4	4	3	20
100	LA70QS100-4	4	3.6	24
125	LA70QS125-4	4	6.9	22
125	LA70QS125-4K	4K	6.9	22
150	LA70QS150-4	4	11	28
150	LA70QS150-4K	4K	11	29
175	LA70QS175-4	4	14	35
175	LA70QS175-4K	4K	14	35
200	LA70QS200-4	4	19	41
200	LA70QS200-4K	4	19	41
250	LA70QS250-4	4	42	42
300	LA70QS300-4	4	55	53
350	LA70QS350-4	4	72	64
400	LA70QS400-4	4	99	75
450	LA70QS450-4	4	125	75
450	LA70QS450-4K	4K	125	75
500	LA70QS500-4	4	150	92
500	LA70QS500-4K	4K	160	92
600	LA70QS600-4	4	222	116
600	LA70QS600-4K	4K	222	116
700	LA70QS700-4	4	332	125
800	LA70QS800-4	4	433	143

Specifications

Voltage Rating: AC: 700 V
DC: 700 V
Interrupting Rating: AC: 200 kA
DC: 100 kA
Ampere Range: 35 – 800 A
Approvals: UL Recognized
CSA Certified



Web Resources

TC Curves, downloadable CAD drawings and other technical information: **www.littelfuse.com/la70qs**

Dimensions in inches (mm)

Dimensions for reference only.

AMPERES	MOUNTING TYPE	DIMENSIONS IN INCHES (mm)							
		A	B	C	D	E	F	G	H
35 – 100	4	4.38 (111)	1.00 (25.4)	2.88 (73)	3.69 (93.6)	3.50 (88.9)	0.31 (7.9)	0.75 (19.0)	0.13 (3.2)
125 – 200	4	4.38 (111)	1.22 (31.0)	2.88 (73)	3.69 (93.6)	3.56 (90.5)	0.31 (7.9)	1.00 (25.4)	0.19 (4.8)
125 – 200	4K	5.09 (129)	1.22 (31.0)	2.88 (73)	4.19 (106)	3.50 (88)	0.41 (10.3)	1.00 (25.4)	0.19 (4.8)
225 – 400	4	5.09 (129)	1.50 (38.1)	2.84 (72.2)	4.16 (106)	3.53 (89.7)	0.40 (10.3)	1.50 (38.1)	0.25 (6.4)
450 – 600	4	5.09 (129)	2.00 (50.8)	2.84 (72.2)	4.16 (106)	3.53 (89.7)	0.41 (10.3)	1.50 (38.1)	0.25 (6.4)
450 – 600	4K	7.09 (180)	2.00 (50.8)	2.84 (72.2)	6.16 (156)	3.53 (89.7)	0.53 (13.5)	1.50 (38.1)	0.25 (6.4)
700 – 800	4	7.09 (180)	2.50 (63.5)	2.84 (72.2)	5.28 (134)	4.91 (125)	0.53 (13.5)	2.00 (50.8)	0.38 (9.5)

Contact Littelfuse for characteristic curves.

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ALTERNATE DIMENSION SEMICONDUCTOR FUSES

1000 VAC • Very Fast-Acting • 15 – 1000 Amperes

AMPERE RATING	LITTELFUSE CATALOG NUMBER	MOUNTING TYPE	MAXIMUM CLEARING I^2T @1000 VAC ($A^2S \times 10^3$)	WATTS LOSS @ RATED CURRENT (W)
15	LA100P15-1	1	0.6	3.4
20	LA100P20-1	1	0.8	5.9
25	LA100P25-1	1	1,3	9
30	LA100P30-1	1	1.5	12.8
35	LA100P35-4	4	2.2	7.3
40	LA100P40-4	4	2.9	8.3
50	LA100P50-4	4	4.5	11
60	LA100P60-4	4	6.5	13
80	LA100P80-4	4	12	14
100	LA100P100-4	4	18	18
125	LA100P125-4	4	28	23
150	LA100P150-4	4	41	28
200	LA100P200-4	4	72	36
225	LA100P225-4	4	91	40
250	LA100P250-4	4	110	46
300	LA100P300-4	4	160	55
350	LA100P350-4	4	220	65
400	LA100P400-4	4	290	70
500	LA100P500-4	4	450	90
600	LA100P600-4	4	650	110
650	LA100P650-4	4	780	120
700	LA100P700-4	4	880	125
800	LA100P800-4	4	1200	140
1000	LA100P1000-4	4	1900	190

Figure 1

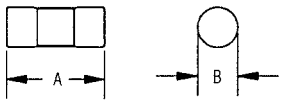


Figure 2

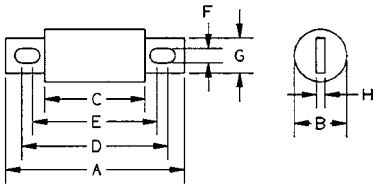


Figure 3

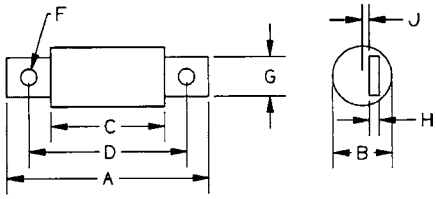
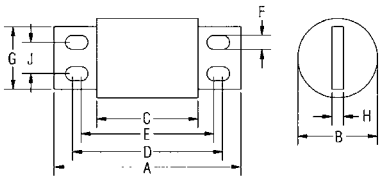


Figure 4



Web Resources

TC Curves, downloadable CAD drawings and other technical information: **www.littelfuse.com/la100p**

Specifications

Voltage Rating: AC: 1000 V
DC: 750 V
Interrupting Rating: 100 kA
Ampere Range: 15 – 1000 A
Approvals: UL Recognized

Dimensions in inches (mm)

Dimensions for reference only.

AMPERES	MOUNTING TYPE	FIGURE NO.	DIMENSIONS IN INCHES (mm)								
			A	B	C	D	E	F	G	H	J
15 – 30	1	1	2.53 (66.8)	0.56 (14.2)	–	–	–	–	–	–	–
35 – 60	4	2	5.00 (127)	1.00 (25.4)	3.50 (88.9)	4.31 (109)	4.19 (106)	0.31 (7.9)	0.75 (19.1)	0.13 (3.3)	–
65 – 100	4	2	5.00 (127)	1.22 (31)	3.50 (88.9)	4.31 (109)	4.19 (106)	0.31 (7.9)	1.00 (25.4)	0.19 (4.8)	–
125 – 200	4	2	5.72 (145)	1.50 (38.1)	3.47 (88.1)	4.78 (121)	4.16 (106)	0.41 (10.4)	1.00 (25.4)	0.25 (6.4)	–
225 – 400	4	2	5.72 (145)	2.00 (50.8)	3.47 (88.1)	4.78 (121)	4.16 (106)	0.41 (10.4)	1.50 (25.4)	0.25 (6.4)	–
500 – 600	4	2	7.72 (196)	2.50 (63.5)	3.47 (88.1)	5.88 (149)	5.56 (147)	0.53 (13.5)	2.00 (50.8)	0.38 (9.7)	–
650 – 800	4	3	7.44 (189)	2.88 (73.2)	3.94 (100)	5.94 (151)	–	0.63 (16)	2.00 (50.8)	0.38 (9.7)	0.31 (7.9)
1000	4	4	8.22 (209)	3.50 (88.9)	4.47 (114)	6.59 (167)	5.84 (148)	0.63 (16)	2.75 (69.9)	0.50 (12.7)	1.38 (35.1)

Contact Littelfuse for characteristic curves.

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