

Subminiature Fuse, 8.5 mm, Quick-Acting F, 250 VAC



IEC 60127-3 · 250 VAC · Quick-Acting F



Description

- Directly solderable on printed circuit boards
- Low Breaking Capacity

Standards

- IEC 60127-3/3
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE Certificate Number: 101035
- UL File Number: E41599
- CSA File Number: 51172

References

[Packaging Details](#)

Corresponding Fuseholder [FMS \(250V\)](#)

Fuse Kit [Fuse Kit MST250 / MSF 250](#)

Weblinks

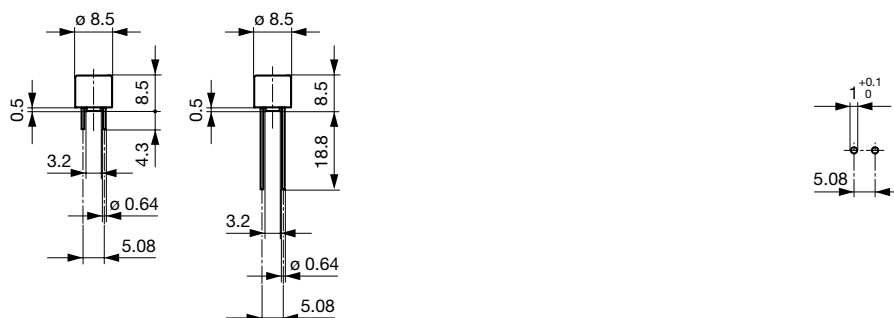
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

Rated Voltage	250 VAC
Rated current	0.04 - 5 A
Breaking Capacity	35 A
Characteristic	Quick-Acting F
Mounting	PCB, THT
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.5 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
Product Marking	 Type, Rated current, Rated voltage, Characteristic, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-20, Test Tb
Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
Current Carrying Capacity	acc. to EIA/IS-722, Test 4.3.3
Life Test	1000h @ 0.60 x I _n @ 70°C (acc. to EIA/IS-722, Test 4.4.1)
Load Humidity Test	0.1 x I _n @ 0.85 r.H. @ 85°C (acc. to EIA/IS-722, Test 4.4.2)
Moisture Resistance Test	(acc. to EIA/IS-722, Test 4.4.3)
Terminal Strength	Tensile load min. 9 N (acc. to EIA/IS-722, Test 4.5.1)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125°C)
Case Resistance	>100 MΩ (between leads and body) acc. to EIA/IS-722, Test 4.7
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50g, half sine wave, 11 ms)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	UL 94V-0 (acc. to EIA/IS-722, Test 4.12)

A horizontal scale bar with vertical end caps, labeled "8.5 mm".



Drilling diagram

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In max.
0.04 A - 5 A	60 min	30 min	10 ms	3 s	3 ms	300 ms	20 ms

Figure 10 is a log-log plot showing the relationship between the Multiple of Rated Current In (X-axis) and Time in Seconds (Y-axis). The X-axis ranges from 1 to 10, and the Y-axis ranges from 0.001 to 100,000. Two curves are plotted, representing different insulation classes. The left curve (Class B) shows a sharp drop in time as current increases, while the right curve (Class F) shows a more gradual decrease. Arrows on the curves indicate the direction of increasing time to failure.

Multiple of Rated Current In	Time in Seconds (Class B)	Time in Seconds (Class F)
1.5	2,000	-
2.0	1,000	-
2.5	500	-
3.0	200	-
3.5	100	-
4.0	50	-
4.5	25	-
5.0	10	-
6.0	3	-
7.0	1.5	-
8.0	0.8	-
9.0	0.5	-
10.0	0.3	-
1.5	-	2,000
2.0	-	1,000
2.5	-	500
3.0	-	200
3.5	-	100
4.0	-	50
4.5	-	25
5.0	-	10
6.0	-	3
7.0	-	1.5
8.0	-	0.8
9.0	-	0.5
10.0	-	0.3

All Variants

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Melting I ² t 10.0 Intyp. [A ² s]				S	L	T	Order Number
0.04	250	1)	-	400	-	0.00016	•	•	•				0034.6000
0.05	250	1)	850	460	110	0.0004	•	•	•	•			0034.6001
0.063	250	1)	750	330	120	0.001	•	•	•	•			0034.6002
0.08	250	1)	650	280	140	0.001	•	•	•	•			0034.6003
0.1	250	1)	600	300	160	0.002	•	•	•	•			0034.6004
0.125	250	1)	550	210	180	0.006	•	•	•	•			0034.6005
0.16	250	1)	500	460	210	0.014	•	•	•	•			0034.6006
0.2	250	1)	480	470	250	0.024	•	•	•	•			0034.6007
0.25	250	1)	440	360	290	0.058	•	•	•	•			0034.6008
0.315	250	1)	400	345	330	0.104	•	•	•	•			0034.6009
0.4	250	1)	370	80	390	0.044	•	•	•	•			0034.6010
0.5	250	1)	350	75	460	0.09	•	•	•	•			0034.6011
0.63	250	1)	320	70	530	0.15	•	•	•	•			0034.6012
0.8	250	1)	300	70	630	0.22	•	•	•	•			0034.6013
1	250	1)	280	70	740	0.33	•	•	•	•			0034.6014
1.25	250	1)	280	65	920	0.68	•	•	•	•			0034.6015
1.6	250	1)	250	70	1000	0.94	•	•	•	•			0034.6016
2	250	1)	240	70	1360	1.3	•	•	•	•			0034.6017
2.5	250	1)	200	65	1310	1.9	•	•	•	•			0034.6018
3.15	250	1)	180	65	1490	5.4	•	•	•	•			0034.6019
4	250	2)	160	60	1680	7.9	•	•	•	•			0034.6020
5	250	2)	150	60	1970	11.2	•	•	•	•			0034.6021
0.04	250	1)	-	400	-	0.00016	•	•	•				0034.6030
0.05	250	1)	850	460	110	0.0004	•	•	•	•			0034.6031
0.063	250	1)	750	330	120	0.001	•	•	•	•			0034.6032
0.08	250	1)	650	280	140	0.001	•	•	•	•			0034.6033
0.1	250	1)	600	300	160	0.002	•	•	•	•			0034.6034
0.125	250	1)	550	210	180	0.006	•	•	•	•			0034.6035
0.16	250	1)	500	460	210	0.014	•	•	•	•			0034.6036
0.2	250	1)	480	470	250	0.024	•	•	•	•			0034.6037
0.25	250	1)	440	360	290	0.058	•	•	•	•			0034.6038
0.315	250	1)	400	345	330	0.104	•	•	•	•			0034.6039
0.4	250	1)	370	80	390	0.044	•	•	•	•			0034.6040
0.5	250	1)	350	75	460	0.09	•	•	•	•			0034.6041
0.63	250	1)	320	70	530	0.15	•	•	•	•			0034.6042
0.8	250	1)	300	70	630	0.22	•	•	•	•			0034.6043
1	250	1)	280	70	740	0.33	•	•	•	•			0034.6044
1.25	250	1)	280	65	920	0.68	•	•	•	•			0034.6045
1.6	250	1)	250	70	1000	0.94	•	•	•	•			0034.6046
2	250	1)	240	70	1360	1.3	•	•	•	•			0034.6047
2.5	250	1)	200	65	1310	1.9	•	•	•	•			0034.6048
3.15	250	1)	180	65	1490	5.4	•	•	•	•			0034.6049
4	250	2)	160	60	1680	7.9	•	•	•	•			0034.6050
5	250	2)	150	60	1970	11.2	•	•	•	•			0034.6051
0.04	250	1)	-	400	-	0.00016	•	•	•			•	0034.6060
0.05	250	1)	850	460	110	0.0004	•	•	•			•	0034.6061
0.063	250	1)	750	330	120	0.001	•	•	•			•	0034.6062
0.08	250	1)	650	280	140	0.001	•	•	•			•	0034.6063
0.1	250	1)	600	300	160	0.002	•	•	•			•	0034.6064
0.125	250	1)	550	210	180	0.006	•	•	•			•	0034.6065
0.16	250	1)	500	460	210	0.014	•	•	•			•	0034.6066
0.2	250	1)	480	470	250	0.024	•	•	•			•	0034.6067
0.25	250	1)	440	360	290	0.058	•	•	•			•	0034.6068

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		S	L	T	Order Number
0.315	250	1)	400	345	330	0.104	● ● ●	●			0034.6069
0.4	250	1)	370	80	390	0.044	● ● ●	●			0034.6070
0.63	250	1)	320	70	530	0.15	● ● ●	●			0034.6072
0.8	250	1)	300	70	630	0.22	● ● ●	●			0034.6073
1	250	1)	280	70	740	0.33	● ● ●	●			0034.6074
1.25	250	1)	280	65	920	0.68	● ● ●	●			0034.6075
1.6	250	1)	250	70	1000	0.94	● ● ●	●			0034.6076
2	250	1)	240	70	1360	1.3	● ● ●	●			0034.6077
2.5	250	1)	200	65	1310	1.9	● ● ●	●			0034.6078
3.15	250	1)	180	65	1490	5.4	● ● ●	●			0034.6079
4	250	2)	160	60	1680	7.9	●	●			0034.6080
5	250	2)	150	60	1970	11.2	●	●			0034.6081

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1) 35 A @ 250 VAC

2) 10 In @ 250 VAC

Packaging Unit	S =	Plastic Bag (100 pcs.)
	L =	Bulk (100 pcs.)
	T =	Taped 36 cm Reel (750 pcs.)