

Surface Mount Fuse, 3 x 10.1 mm, Time-Lag T, 250 VAC, 125 VDC



IEC 60127-4 · 250 VAC · 125 VDC · Time-Lag T



Description

- High current range from 80 mA to 10 A
- High breaking capacity of 200 A @ 250 VAC (IEC)
- UL approval for 277 VAC and 250 VDC

Unique Selling Proposition

- Compact design
- Maximum breaking capacity at minimal footprint
- Suitable for pulse-shaped continuous currents

Standards

- IEC 60127-4/2
- UL 248-14
- CSA C22.2 no. 248.14
- Qualification according to AEC-Q200 on request

Approvals

- Approval Reference Type: UMT 250
- VDE Certificate Number: 40013121
- UL File Number: E41599

Applications

- Primary protection on SMD PCBs
- Medical equipment
- Battery protection

References

[Packaging Details](#)

Fuse Kit [Fuse Kit UMT 250 / UMT 250](#)

Weblinks

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

[Application Note Primary Protection in Equipment](#) with further information on increased [Pulse Strength](#) and their test conditions according to international standards see [Impulse Withstand Voltage](#)

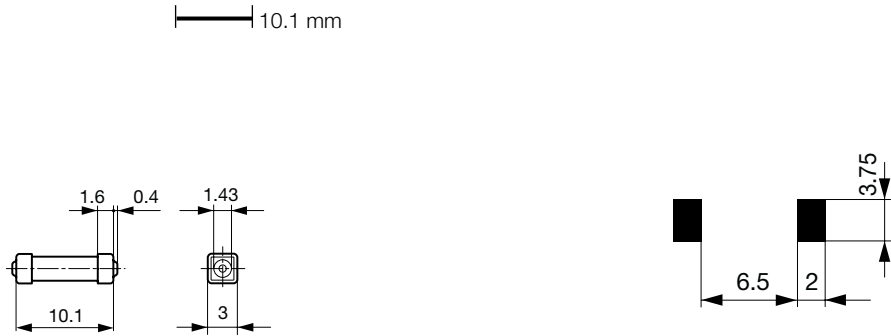
Technical Data

Rated Voltage	250 VAC, 125 VDC
Rated current	0.08 - 10 A
Breaking Capacity	35 A - 200 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.23 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	  , Rated current, Voltage, Characteristic, Breaking Capacity

Soldering Methods	Reflow, Wave Soldering Profile
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 40 sec acc. to IPC/JEDEC J-STD-020D, 1 cycle
Life Test	MIL-STD-202, Method 108A (1000h @ 0.42*In @ 70 °C)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50g, half sine wave, 11 ms)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

Dimension [mm]

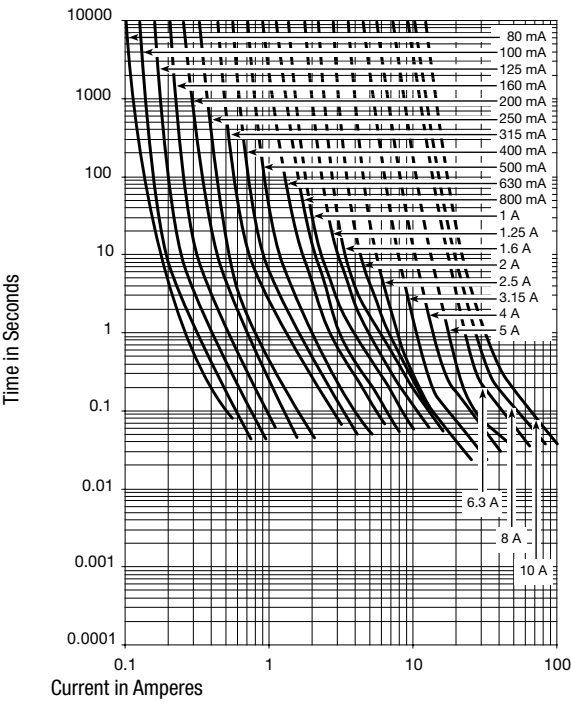


Soldering pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	1.25 x In min.	2.0 x In max.	10.0 x In min.	10.0 x In max.
0.08 A - 6.3 A	-	60 min	120 s	10 ms	100 ms
8 A - 10 A	4 h	-	120 s	10 ms	100 ms

Time-Current-Curves



All Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.25 In max [mW]	Melting I²t 10.0 Intyp. [A²s]							Order Number
0.08	250	125	1)	1300	1030	200	0.022	●	●	●	●	●	●	3403.0155.11
0.08	250	125	1)	1300	1030	200	0.022	●	●	●	●	●	●	3403.0155.24
0.1	250	125	1)	1300	870	200	0.04	●	●	●	●	●	●	3403.0156.11
0.1	250	125	1)	1300	870	200	0.04	●	●	●	●	●	●	3403.0156.24
0.125	250	125	1)	1000	700	200	0.055	●	●	●	●	●	●	3403.0157.11
0.125	250	125	1)	1000	700	200	0.055	●	●	●	●	●	●	3403.0157.24

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.25 In max [mW]	Melting I ² t 10.0 Intyp. [A ² s]								Order Number
0.16	250	125	1)	1000	540	240	0.057	●	●	●	●	●	●	●	3403.0158.11
0.16	250	125	1)	1000	540	240	0.057	●	●	●	●	●	●	●	3403.0158.24
0.2	250	125	1)	1000	460	500	0.092	●	●	●	●	●	●	●	3403.0159.11
0.2	250	125	1)	1000	460	500	0.092	●	●	●	●	●	●	●	3403.0159.24
0.25	250	125	1)	800	395	500	0.2	●	●	●	●	●	●	●	3403.0160.11
0.25	250	125	1)	800	395	500	0.2	●	●	●	●	●	●	●	3403.0160.24
0.315	250	125	1)	750	343	500	0.27	●	●	●	●	●	●	●	3403.0161.11
0.315	250	125	1)	750	343	500	0.27	●	●	●	●	●	●	●	3403.0161.24
0.4	250	125	1)	700	290	500	0.4	●	●	●	●	●	●	●	3403.0162.11
0.4	250	125	1)	700	290	500	0.4	●	●	●	●	●	●	●	3403.0162.24
0.5	250	125	1)	600	257	500	0.54	●	●	●	●	●	●	●	3403.0163.11
0.5	250	125	1)	600	257	500	0.54	●	●	●	●	●	●	●	3403.0163.24
0.63	250	125	1)	500	216	500	1.1	●	●	●	●	●	●	●	3403.0164.11
0.63	250	125	1)	500	216	500	1.1	●	●	●	●	●	●	●	3403.0164.24
0.8	250	125	1)	400	190	500	1.4	●	●	●	●	●	●	●	3403.0165.11
0.8	250	125	1)	400	190	500	1.4	●	●	●	●	●	●	●	3403.0165.24
1	250	125	2)	300	164	500	2.8	●	●	●	●	●	●	●	3403.0166.11
1	250	125	2)	300	164	500	2.8	●	●	●	●	●	●	●	3403.0166.24
1.25	250	125	2)	300	138	1000	4.5	●	●	●	●	●	●	●	3403.0167.11
1.25	250	125	2)	300	138	1000	4.5	●	●	●	●	●	●	●	3403.0167.24
1.6	250	125	2)	300	124	1000	6.9	●	●	●	●	●	●	●	3403.0168.11
1.6	250	125	2)	300	124	1000	6.9	●	●	●	●	●	●	●	3403.0168.24
2	250	125	2)	300	102	1000	7.3	●	●	●	●	●	●	●	3403.0169.11
2	250	125	2)	300	102	1000	7.3	●	●	●	●	●	●	●	3403.0169.24
2.5	250	125	2)	300	90	1200	7.5	●	●	●	●	●	●	●	3403.0170.11
2.5	250	125	2)	300	90	1200	7.5	●	●	●	●	●	●	●	3403.0170.24
3.15	250	125	2)	300	95	1500	14	●	●	●	●	●	●	●	3403.0171.11
3.15	250	125	2)	300	95	1500	14	●	●	●	●	●	●	●	3403.0171.24
4	250	125	2)	300	78	2000	26	●	●	●	●	●	●	●	3403.0172.11
4	250	125	2)	300	78	2000	26	●	●	●	●	●	●	●	3403.0172.24
5	250	125	3)	300	76	2500	38	●	●	●	●	●	●	●	3403.0173.11
5	250	125	3)	300	76	2500	38	●	●	●	●	●	●	●	3403.0173.24
6.3	250	125	3)	300	71	3000	66	●	●	●	●	●	●	●	3403.0174.11
6.3	250	125	3)	300	71	3000	66	●	●	●	●	●	●	●	3403.0174.24
8	250	125	4)	220	72	3000	113	●	●	●	●	●	●	●	3403.0175.11
8	250	125	4)	220	72	3000	113	●	●	●	●	●	●	●	3403.0175.24
10	250	125	4)	220	73	3500	166	●	●	●	●	●	●	●	3403.0176.11
10	250	125	4)	220	73	3500	166	●	●	●	●	●	●	●	3403.0176.24

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- 1) IEC: 200 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC
- 1) UL: 200 A @ 277 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC
- 2) IEC: 200 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC
- 2) UL: 200 A @ 277 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC
- 2) PSE: 100 A @ 250 VAC
- 3) IEC: 100 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC
- 3) UL: 100 A @ 250 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC
- 3) PSE: 100 A @ 250 VAC
- 4) UL: 35 A @ 250 VAC / 35 A @ 125 VDC / 200 A @ 63 VAC/DC
- 4) PSE: 100 A @ 250 VAC

Rated Cur- rent [A]	Rated Vol- tage [VAC]	Rated Vol- tage [VDC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissi- pation 1.25 In max [mW]	Melting I ² t 10.0 Intyp. [A²s]	     	Order Number
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The 80 mA variant may not be to replace the 80 mA used with gold caps UMT (Au).

Packaging Unit	.xx = .11 Plastic Bag (100 pcs.) .xx = .24 Blister Tape 33 cm Reel (2000 pcs.)
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Mouser Electronics

Authorized Distributor

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<u>3403.0170.11</u>	<u>3403.0161.11</u>	<u>3403.0163.11</u>	<u>3403.0170.24</u>	<u>3403.0168.24</u>	<u>3403.0172.24</u>	<u>3403.0165.11</u>	<u>3403.0171.11</u>
<u>3403.0155.11</u>	<u>3403.0155.24</u>	<u>3403.0157.24</u>	<u>3403.0173.11</u>	<u>3403.0173.24</u>	<u>3403.0174.11</u>	<u>3403.0174.24</u>	
<u>3403.0175.11</u>	<u>3403.0175.24</u>	<u>3403.0176.11</u>	<u>3403.0176.24</u>	<u>3403.0164.11</u>	<u>3403.0164.24</u>	<u>3403.0171.24</u>	<u>3403.0168.11</u>
<u>3403.0162.24</u>	<u>3403.0167.24</u>	<u>3403.0169.24</u>	<u>3403.0161.24</u>	<u>3403.0166.11</u>	<u>3403.0156.11</u>	<u>3403.0156.24</u>	
<u>3403.0157.11</u>	<u>3403.0158.11</u>	<u>3403.0158.24</u>	<u>3403.0159.11</u>	<u>3403.0159.24</u>	<u>3403.0160.11</u>	<u>3403.0160.24</u>	