UMF 250

Surface Mount Fuse, 3 x 10.1 mm, Quick-Acting F, 250 VAC, 125 VDC

new



IEC 60127-4 · 250 VAC · 125 VDC · Quick-Acting F

Description
- Directly solderable on printed circuit boards
- Low melting I²t-values, fast interruption
- Compact design
- UMF (universal modular fuse)

Standards
- IEC 60127-4/2
- UL 248-14
- CSA C22.2 no. 248.14

Approvals
- VDE Certificate Number: 40027880
- UL File Number: E41599

Applications
- Primary protection on SMD PCBs
- Secondary protection on SMD PCBs
- Industrial electronic
- Medical equipment
- Power supplies
- Lighting

References
Packaging Details
Fuse Kit Fuse Kit UMF 250 / UMK 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

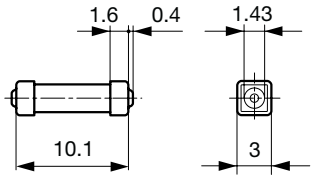
Technical Data

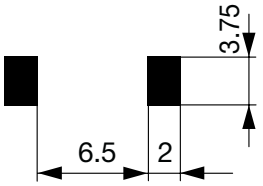
Rated Voltage	250 VAC, 125 VDC
Rated current	0.5 - 10 A
Breaking Capacity	100 A - 200 A
Characteristic	Quick-Acting F
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.23 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
Product Marking	Ⓢ Ⓜ, Rated current, Rated voltage, Characteristic, Breaking Capacity

Soldering Methods	Reflow, Wave
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td
Life Test	1000h @ 0.60 x In @ 70°C (acc. to EIA/IS-722, Test 4.4.1)
Moisture Resistance Test	MIL-STD-202, Method 106E (acc. to EIA/IS-722, Test 4.4.3)
Case Resistance	>100 MΩ (between leeds 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	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimension

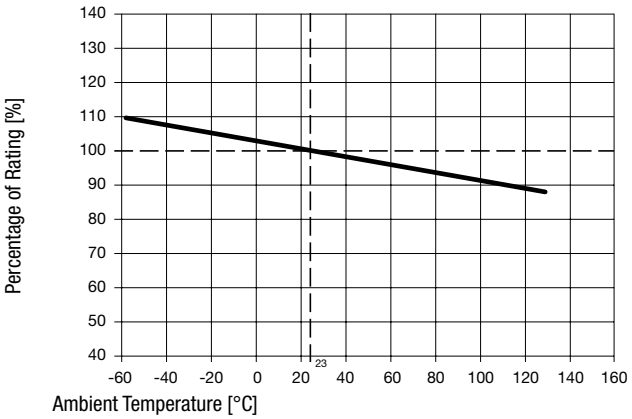
10.1 mm





Soldering pads

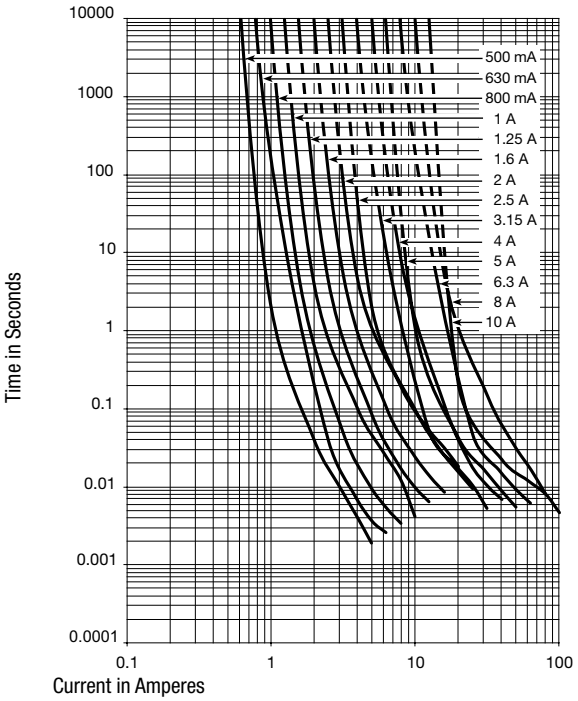
Derating Curves



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.
0.5 A - 8 A	-	60 min	120 s	1 ms	10 ms
10 A	4 h	-	120 s	1 ms	10 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 I_n typ. [mW]	Melting I^2t 10.0 Intyp. [A^2s]	VDE	cULus	Order Number
0.5	250	125	1)	600	430	500	0.27	●	●	3405.0163.xx
0.63	250	125	1)	500	350	500	0.092	●	●	3405.0164.xx
0.8	250	125	1)	400	300	500	0.21	●	●	3405.0165.xx
1	250	125	1)	300	250	500	0.4	●	●	3405.0166.xx
1.25	250	125	2)	300	220	1000	1	●	●	3405.0167.xx
1.6	250	125	2)	300	190	1000	2.1	●	●	3405.0168.xx
2	250	125	2)	300	200	1000	3.26	●	●	3405.0169.xx
2.5	250	125	2)	300	160	1200	4.8	●	●	3405.0170.xx
3.15	250	125	2)	300	100	1500	5.17	●	●	3405.0171.xx
4	250	125	2)	300	100	2000	9.4	●	●	3405.0172.xx
5	250	125	2)	300	110	2500	13.57	●	●	3405.0173.xx
6.3	250	125	2)	300	80	3000	23.85	●	●	3405.0174.xx
8	250	125	2)	220	80	3000	52.58	●	●	3405.0175.xx
10	250	125	3)	220	150	3500	45.8		●	3405.0176.xx

Most Popular.

Availability for all products can be searched real-time:http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

1) IEC: 100 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC, resistive

1) UL: 200 A @ 250 VAC, p.f. ≥ 0.95 / 200 A @ 125 VDC, resistive

2) IEC: 100 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC, resistive

2) UL: 100 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC, resistive

3) UL: 100 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC, resistive

Packaging Unit

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

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