

Surface Mount Fuse, 5 x 20 mm, Time-Lag T, H, 250 VAC, Au plating



IEC 60127-2 · 250 VAC · 300 VDC · Time-Lag T



Description

- Directly solderable on printed circuit boards
- IEC Standard Fuse
- H = High Breaking Capacity

Standards

- IEC 60127-2/5
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- Approval Reference Type: SMD-SPT
- VDE Certificate Number: 40010881
- UL File Number: E41599

Applications

- Primary protection on SMD PCBs

References

[Packaging Details](#)

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](#)

Technical Data

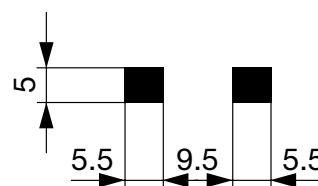
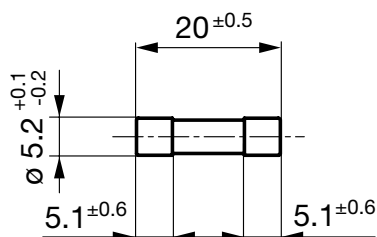
Rated Voltage	250 VAC, 300 VDC
Rated current	1 - 16 A
Breaking Capacity	500 A - 1500 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Gold-Plated Copper Alloy
Unit Weight	1 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Rated current, Rated Voltage, Characteristic, Breaking Capacity

Soldering Methods	Reflow Soldering Profile
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
Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
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)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125 °C)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Resistance to Solvents	MIL-STD-202, Method 215A

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

Dimension

20 mm

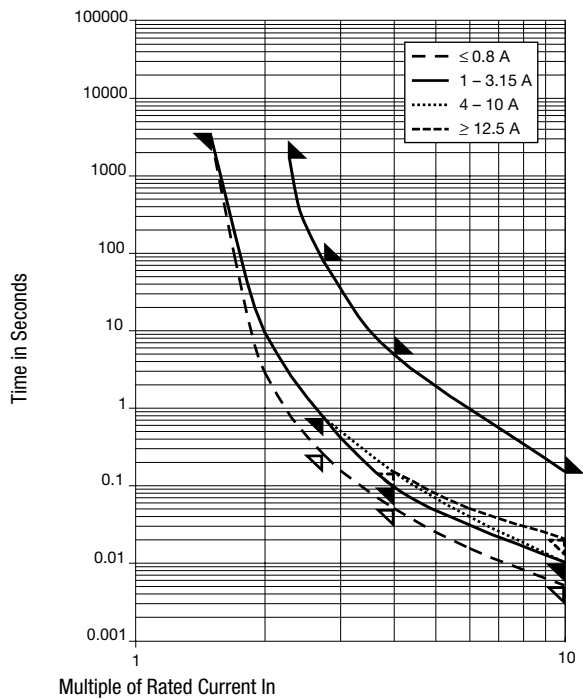


Soldering pads

Pre-Arcing Time

Rated Current I _n	1.5 x I _n min.	2.1 x I _n max.	2.75 x I _n min.	2.75 x I _n max.	4.0 x I _n min.	4.0 x I _n max.	10.0 x I _n min.	10.0 x I _n max.
1 A - 3.15 A	60 min	30 min	750 ms	80 s	95 ms	5 s	10 ms	150 ms
4 A - 6.3 A	60 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
8 A - 10 A	30 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
12.5 A - 16 A	15 min	30 min	750 ms	80 s	150 ms	5 s	20 ms	150 ms

Time-Current-Curves



All Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	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]	Power Dissipation 1.5 I _n typ. [mW]	Melting I _t 10.0 I _n typ. [A²s]	  	Order Number
1	250	300	1)	250	180	2500	500	1.1	● ● ●	0001.2704.11
1	250	300	1)	250	180	2500	500	1.1	● ● ●	0001.2704.22
1.25	250	300	1)	250	150	2500	500	1.86	● ● ●	0001.2705.11
1.25	250	300	1)	250	150	2500	500	1.86	● ● ●	0001.2705.22
1.6	250	300	1)	200	130	2500	500	4.35	● ● ●	0001.2706.11
1.6	250	300	1)	200	130	2500	500	4.35	● ● ●	0001.2706.22
2	250	300	1)	190	120	2500	600	9.2	● ● ●	0001.2707.11
2	250	300	1)	190	120	2500	600	9.2	● ● ●	0001.2707.22
2.5	250	300	1)	180	100	2500	600	11.7	● ● ●	0001.2708.11
2.5	250	300	1)	180	100	2500	600	11.7	● ● ●	0001.2708.22
3.15	250	300	1)	140	100	4000	800	33.7	● ● ●	0001.2709.11
3.15	250	300	1)	140	100	4000	800	33.7	● ● ●	0001.2709.22
4	250	150	2)	100	90	4000	900	62.4	● ● ●	0001.2710.11
4	250	150	2)	100	90	4000	900	62.4	● ● ●	0001.2710.22
5	250	150	2)	100	90	4000	1200	97.5	● ● ●	0001.2711.11
5	250	150	2)	100	90	4000	1200	97.5	● ● ●	0001.2711.22
6.3	250	150	2)	100	70	4000	1200	171	● ● ●	0001.2712.11
6.3	250	150	2)	100	70	4000	1200	171	● ● ●	0001.2712.22
8	250	150	3)	100	70	4000	1300	268	● ●	0001.2713.11

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	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]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
8	250	150	3)	100	70	4000	1300	268	● ●	0001.2713.22
10	250	150	3)	100	70	4000	2100	400	● ●	0001.2714.11
10	250	150	3)	100	70	4000	2100	400	● ●	0001.2714.22
12.5	250	125	4)	100	70	4000	2500	563	●	0001.2715.11
12.5	250	125	4)	100	70	4000	2500	563	●	0001.2715.22
16	250	125	4)	100	70	4000	3000	1272	●	0001.2716.11
16	250	125	4)	100	70	4000	3000	1272	●	0001.2716.22

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- 1) IEC: 1500 A @ 250 VAC, p.f. = 0.7 - 0.8
- 1) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 300 VDC
- 2) IEC: 1500 A @ 250 VAC, p.f. = 0.7 - 0.8
- 2) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 150 VDC
- 3) IEC: 1000 A @ 250 VAC
- 3) UL: 1000 A @ 250 VAC / 1500 A @ 150 VDC
- 4) UL: 500 A @ 125 VAC, p.f. = 0.7 - 0.8 / 1000 A @ 125 VAC / 500 A @ 250 VAC / 1500 A @ 125 VDC

Packaging Unit .xx = .11 Plastic Bag (100 pcs.)
 .xx = .22 Blister Tape 33 cm Reel (1000 pcs.)