

Solid State, Thin Film, SMD 1206, Super-Quick-Acting FF, 125 VAC, 125 VDC, 150 °C

new



UL 248-14 · 125 VAC · 125 VDC · Super-Quick-Acting FF

See below:

[Approvals and Compliances](#)**Description**

- Highest Breaking Capacity Rating for a 1206 on the market: 300A@125VDC

Unique Selling Proposition

- No tin whiskers, no tin dendrites
- No leaded coating (RoHS conform)
- Similar fuse qualification as in MIL-PRF 23419
- Hermetically sealed and robust construction

Applications

- Industrial grade space application
- Avionics
- Medical equipment
- Defense

Other versions on request

- Different Up Screenings
- Extensive Test Reports
- Visual Inspection according MIL-PRF 55342

References[Packaging Details](#)**Weblinks**

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Packaging details](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Landing Page](#)

Technical Data

Rated Voltage	32 - 125 VAC, 125 VDC
Rated current	0.2 - 5 A
Breaking Capacity	50 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB, SMT
Max. Non-Operating Temp.	+150 °C
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/56 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Tin-Plated Nickel
Unit Weight	0.03 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	none

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 / 10 sec acc. to IEC 60068-2-58 Test TD, Level 1
Life Test	2000h @ 0.63 x In @ 125 °C
Load Humidity Test	MIL-STD-202, Method 103B 0.1 x In @ 0.85 r.H. @ 85 °C
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	EIA/IS-722, Test 4.5.5 (Deflection of board 1 mm for 1 minute)
Thermal Shock	IEC 60068-2-14 (200 air-to-air cycles from -55 to +150 °C)
Mechanical Shock	IEC 60068-2-27 (12 shocks, 1600 g, 0.5 ms)
Damp heat, steady state	IEC 60068-2-78 (40 °C, 93% RH, 56 days)
Vibration, High Frequency	IEC 60068-2-6 Shock 20 g, 20 min, 0.01-2 kHz, 12 cyc.
ESD classification	IEC 60068-2-78 (500 to < 1000 V)
Resistance to Solvents	Cleaning with common solvents

Approvals and Compliances

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

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: MGA-A

Approval Logo



Certificates

UL Approvals

Certification Body

UL

Description

UL File Number: E41599

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	UL 248-14	Low voltage fuses - Part 14: Additional fuses
	Designed according to	CSA22.2 No. 248.14	Low-Voltage Fuses - Part 14: Supplemental Fuses

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

Compliances

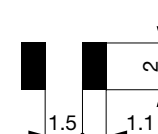
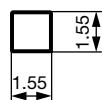
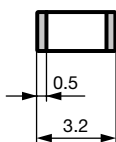
The product complies with following Guide Lines

Identification	Details	Initiator	Description
	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

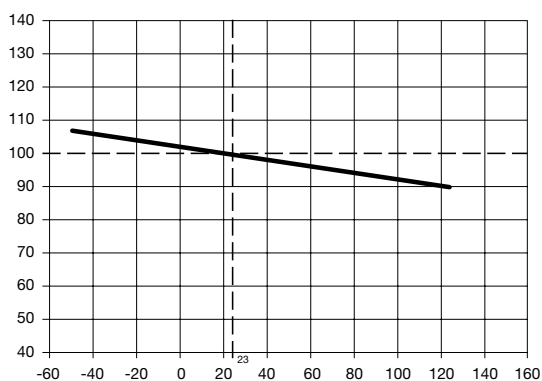
Dimension [mm]

3.2 mm

Reflow soldering pads



Derating Curves

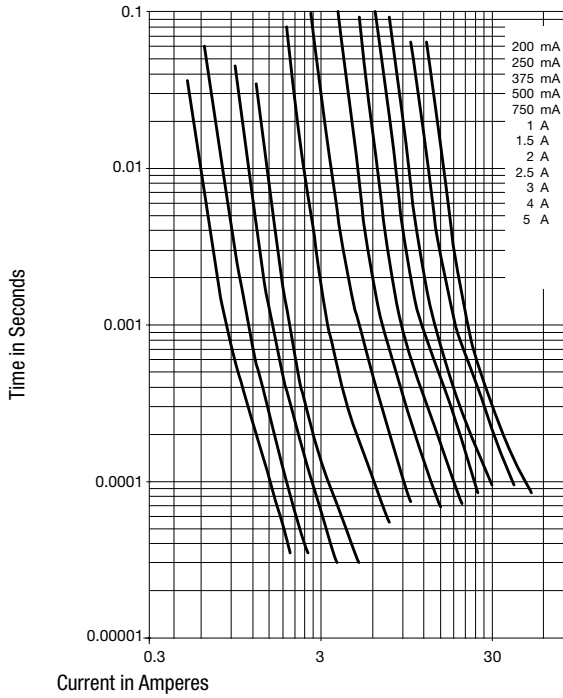


Pre-Arcing Time


Rated Current I_n 1.0 x I_n min. 2.5 x I_n max.


0.2 A - 5 A	4 h	5 s
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Time-Current-Curves



All Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Melting I^2t 10.0 I_n typ. [A ² s]		Packaging [PCS]	Order Number
0.2	125	125	1)	219	0.0001	●	100	3-103-085
0.2	125	125	1)	219	0.0001	●	750	3-103-086
0.2	125	125	1)	219	0.0001	●	3000	3-103-087
0.2	125	125	1)	219	0.0001	●	10000	3-103-088
0.25	125	125	1)	200	0.00013	●	100	3-103-089
0.25	125	125	1)	200	0.00013	●	750	3-103-090
0.25	125	125	1)	200	0.00013	●	3000	3-103-091
0.25	125	125	1)	200	0.00013	●	10000	3-103-092
0.375	125	125	1)	132	0.00035	●	100	3-103-093
0.375	125	125	1)	132	0.00035	●	750	3-103-094
0.375	125	125	1)	132	0.00035	●	3000	3-103-095
0.375	125	125	1)	132	0.00035	●	10000	3-103-096
0.5	125	125	1)	120	0.0004	●	100	3-103-097
0.5	125	125	1)	120	0.0004	●	750	3-103-098
0.5	125	125	1)	120	0.0004	●	3000	3-103-099
0.5	125	125	1)	120	0.0004	●	10000	3-103-100
0.75	125	125	1)	80	0.003	●	100	3-103-101
0.75	125	125	1)	80	0.003	●	750	3-103-102
0.75	125	125	1)	80	0.003	●	3000	3-103-103
0.75	125	125	1)	80	0.003	●	10000	3-103-104
1	125	125	1)	105	0.008	●	100	3-103-105
1	125	125	1)	105	0.008	●	750	3-103-106
1	125	125	1)	105	0.008	●	3000	3-103-107
1	125	125	1)	105	0.008	●	10000	3-103-108

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Melting I ² t 10.0 In typ. [A ² s]		Packaging [PCS]	Order Number
1.5	125	125	1)	84	0.014	●	100	3-103-109
1.5	125	125	1)	84	0.014	●	750	3-103-110
1.5	125	125	1)	84	0.014	●	3000	3-103-111
1.5	125	125	1)	84	0.014	●	10000	3-103-112
2	125	125	1)	78	0.025	●	100	3-103-113
2	125	125	1)	78	0.025	●	750	3-103-114
2	125	125	1)	78	0.025	●	3000	3-103-115
2	125	125	1)	78	0.025	●	10000	3-103-116
2.5	125	125	1)	72	0.055	●	100	3-103-117
2.5	125	125	1)	72	0.055	●	750	3-103-118
2.5	125	125	1)	72	0.055	●	3000	3-103-119
2.5	125	125	1)	72	0.055	●	10000	3-103-120
3	125	125	1)	70	0.09	●	100	3-103-121
3	125	125	1)	70	0.09	●	750	3-103-122
3	125	125	1)	70	0.09	●	3000	3-103-123
3	125	125	1)	70	0.09	●	10000	3-103-124
4	63	63	2)	67	0.15	●	100	3-103-125
4	63	63	2)	67	0.15	●	750	3-103-126
4	63	63	2)	67	0.15	●	3000	3-103-127
4	63	63	2)	67	0.15	●	10000	3-103-128
5	32	32	3)	70	0.205	●	100	3-103-129
5	32	32	3)	70	0.205	●	750	3-103-130
5	32	32	3)	70	0.205	●	3000	3-103-131
5	32	32	3)	70	0.205	●	10000	3-103-132

Most Popular.

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

1) 50 A @ 125 VAC / 300 A @ 125 VDC

2) 50 A @ 63 VAC / 50 A @ 125 VDC / 300 A @ 32 VDC

3) 50 A @ 32 VAC / 50 A @ 125 VDC / 300 A @ 32 VDC

Packaging Unit

Taped in plastic bag (100 pcs.)
Blister Tape 18 cm Reel (750 pcs.)
Blister Tape 33 cm Reel (3000 pcs.)
Blister Tape 33 cm Reel (10000 pcs.)