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



250 VAC · 125 VDC · Quick-Acting F

See helow: ices

Description

- Designed for use with fuseholder FRM-A
- Directly solderable on printed circuit boards
- Impermeable to potting compound used to achieve hermetic seal for use in intrinsically safe applications according to ATEx and IECEx requirements.

Unique Selling Proposition

- Defined interruption at 1.7 x rated current
- Low melting I2t-values
- Verified High Altitude Capability
- Qualified for high altitude operation

Technical Data

250 VAC, 125 VDC
0.5 - 8A
100A - 200A
Quick-Acting F
PCB,SMT
-55 °C to 125 °C
55/125/21 acc. to IEC 60068-1
Ceramics
Copper alloy, gold-plated nickel
0.3 g
0°C to 40°C, max. 70% r.h.
B, DRM-A, Rated current, Characteri-
stic, Rated Voltage

See below.			
Approvals	and	Comp	lian

Applications

- Avionics

- Ground Equipment

References

Corresponding Fuseholder

Weblinks

pdf data sheet, html datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Microsite

Soldering Methods	Reflow, Wave
	Soldering Profile
Solderability	JESD22-B102E, Method 1
Resistance to Soldering Heat	JEDEC J-STD-020
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
Moisture Sensitivity Level	MSL 1, J-STD-020
Damp heat, steady state	IEC 60068-2-78
Moisture Resistance Test	MIL-STD-202, Method 106 (acc. to EIA/IS-722, Test 4.4.3)
Operational Life	MIL-STD-202, Method 108 Condition F 2000h @ 0.60 x In @ 125°C
Vibration, High Frequency	IEC 60068-2-6
Mechanical Shock	IEC 60068-2-27
High Temperature Exposure	IEC 60068-2-14
Resistance to Solvents	MIL-STD-202, Method 215

Approvals and Compliances

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

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: DRM-A

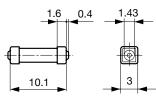
Approval Logo	Certificates	Certification Body	Description
c FLL us	UL Approvals	UL	UR File Number: E41599

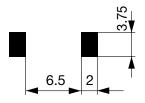
DRM-A

Product standards	s that are referenced		
Organization	Design	Standard	Description
(h)	Designed according to	UL 248-14	Low voltage fuses - Part 14: Supplemental fuses
Application sta	ndards		
Application standa	ards where the product can be used		
Organization	Design	Standard	Description
IEC	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
Compliances			
	blies with following Guide Lines		
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
5 0	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.
Halogen Free 🖽	Halogen Free	SCHURTER AG	SCHURTER strives to offer our customers halogen free products.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as

Dimension [mm]

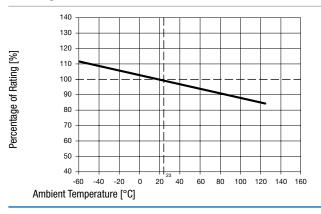
10.1 mm





Soldering pads

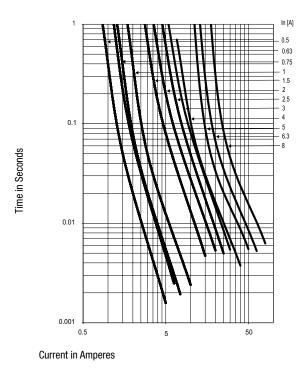
Derating Curves



Pre-Arcing Time

Rated Current In	1.0 x In min.	1.1 x In min.	1.7 x In min.	1.7 x in max.	3.0 x In min.	3.0 x In max.	10.0 x In min.	10.0 x ln max.
0.5 A - 8 A	4 h	60 min	300 ms	60 min	35 ms	300 ms	1 ms	10 ms

Time-Current-Curves



All Variants

Rated Cur- rent [A]	Rated Vol- tage [VAC]	Rated Voltage [VDC]	Breaking Ca- pacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipa- tion 1.1 I _n typ. [mW]	Melting I ² t 10.0 I _n typ. [A ² s]	Packaging unit	Order Number
0.5	250	125	1)	830	503	0.04	100	3-133-762
0.5	250	125	1)	830	503	0.04	2000	3-133-763
0.63	250	125	1)	580	468	0.1	100	3-133-757
0.63	250	125	1)	580	468	0.1	2000	3-133-758
0.75	250	125	1)	500	494	0.11	100	3-133-755
0.75	250	125	1)	500	494	0.11	2000	3-133-756
1	250	125	1)	380	517	0.24	100	3-133-753
1	250	125	1)	380	517	0.24	2000	3-133-754
1.5	250	125	2)	290	576	1.1	100	3-133-751
1.5	250	125	2)	290	576	1.1	2000	3-133-752
2	250	125	2)	280	740	2.1	100	3-133-749
2	250	125	2)	280	740	2.1	2000	3-133-750
2.5	250	125	2)	275	941	3.1	100	3-133-747
2.5	250	125	2)	275	941	3.1	2000	3-133-748
3	250	125	2)	240	1067	4.9	100	3-133-745
3	250	125	2)	240	1067	4.9	2000	3-133-746
4	250	125	2)	135	726	6	100	3-133-743
4	250	125	2)	135	726	6	2000	3-133-744
5	250	125	2)	100	672	13.8	100	3-133-731
5	250	125	2)	100	672	13.8	2000	3-133-742
6.3	250	125	2)	105	903	20.9	100	3-133-729
6.3	250	125	2)	105	903	20.9	2000	3-133-730

Rated Cur- rent [A]	Rated Vol- tage [VAC]	Rated Voltage [VDC]	Breaking Ca- pacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipa- tion 1.1 I _n typ. [mW]	Melting I²t 10.0 I _n typ. [A²s]	Packaging unit	Order Number
8	250	125	2)	93	978	40.1	100	3-133-472
8	250	125	2)	93	978	40.1	2000	3-133-471

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

1) UL: 100 A @ 250 VAC, $\cos\phi$ >= 0.99; 100 A @ 125 VDC, tau < 0.5 ms

1) Internal tests at 65'000 ft: 200 A @ 125 VAC, $\cos \phi >=$ 0.99; 200 A @ 125 VDC, tau < 0.5 ms

2) UL: 100 A @ 250 VAC, $\cos\phi$ >= 0.99; 100 A @ 125 VDC, tau < 0.5 ms

2) Internal tests at 65'000 ft: 100 A @ 125 VAC, cos ϕ >= 0.99; 100 A @ 125 VDC, tau < 0.5 m

Packaging Unit

acc. IEC 60286-3 Type 2a

100 pcs in ESD-plastic bag 2000 pcs. in tape [W: 24mm and P1: 8mm] on reel [A: 33cm]

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 7010.9962.63
 SEF 12A 65V (G)
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 06 100.4
 TBF50
 TBF40

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 12 100.1.5
 06 110.5
 1206FA-R250
 R06.100.6
 R12.100.15
 R06.000.0.375
 R06.000.6
 R06.100.0.25
 R12.000.8

 R06.000.0.5
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 S0603-S-2.0A
 F06F3.5

 F12F20
 TA3VT2
 F12F1
 F06F7
 F06T3.5
 F06F0.375
 F06T8
 F12F30
 4T2A250V
 R12.100.30