UHP SMD Fuse 100 A, 80 VDC, 11.4 x 10.2 mm



80 VDC · Quick-Acting F

Description

- This fuse was specially developed for SELV applications with high rated currents for highest breaking capacity demands. Thanks to its design, the fuses tripping time minimizes excessive temperature dissipation at 2x rated current.

Unique Selling Proposition

- High breaking capacity up to 3000 A
- Safe tripping in 15 s at twice the rated current
- High range of operating temperature

Technical Data

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Rated Voltage	80 VDC
Rated current	50 - 100A
Breaking Capacity	3000 A
Characteristic	Quick-Acting F
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Material: Housing	Polyphthalamid
Material: Terminals	Ni/Sn-Plated Copper Alloy
Unit Weight	1.2 g
Storage Conditions	0°C to 40°C, max. 70% r.h.
Storage Capability	max. 1 year, at 25 °C in original packa-
	ging
Product Marking	🗐, Marking, gR, Lot Code

See below	/:		
Approva	is and	Com	pliances

Applications

- Automotive
- Datacenter appliances
- Telecom equipment
- Power tools

Weblinks

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

Soldering Methods	Reflow
	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
Resistance to Soldering Heat	260 +0/-5 °C / 30 sec acc. to IPC/JE-
	DEC J-STD-020D, Level 1
Moisture Sensitivity Level	MIL-STD-202, Method 103
Flammability	UL 94V-1
Thermal Shock	JESD22 Method JA-104
Operational Life	MIL-STD-202, Method 108 Condition D
Vibration, High Frequency	MIL-STD-202, Method 204 Condition C
Mechanical Shock	MIL-STD-202, Method 213 Condition C
Resistance to Solvents	MIL-STD-202, Method 215
Temperature Cycling	JESD22 Method JA-104
Board Flex	AEC-Q200-005
Terminal Strength	AEC-Q200-006

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: UHP

Approval Logo	Certificates	Certification Body	Description
c FL [°] us	UL Approvals	UL	UR File Number: E531402



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Product standards

Product standards that are referenced

Organization	Design	Standard	Description
(UL)	Designed according to	UL 248-13	Low voltage fuses - Part 13: Semiconductor fuses
CSA Group	Designed according to	CSA C22.2 No. 248.13:22	Low voltage fuses - Part 13: Semiconductor fuses

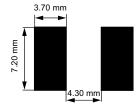
Compliances

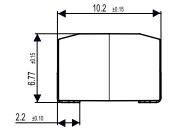
The product complies with following Guide Lines

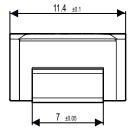
IdentificationDetailsInitiatorDescriptionC € declaration of conformitySCHURTER AGThe CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.UKCA declaration of conformitySCHURTER AGThe UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.UKCA declaration of conformitySCHURTER AGDirective RoHS 2011/65/EU, Amendment (EU) 2015/863Image: StressRoHSSCHURTER AGDirective RoHS 2011/65/EU, Amendment (EU) 2015/863Image: StressHalogen FreeSCHURTER AGThe law SJ / T11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.Image: StressREACHSCHURTER AGSCHURTER AGImage: StressREACHSCHURTER AGOn 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.Image: StressAutomotiveSCHURTER AGOn 1 June 2007, Regulation (FC) No 1907/2006 on the Registration, Evaluation, SCHURTER disco. SCHURTE				
CCCrequirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.UKCA declaration of conformitySCHURTER AGThe UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.Image: RoHSSCHURTER AGDirective RoHS 2011/65/EU, Amendment (EU) 2015/863Image: RoHSSCHURTER AGDirective RoHS 2011/65/EU, Amendment (EU) 2015/863Image: RoHSSCHURTER AGThe law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.Image: ReachHalogen FreeSCHURTER AGOn 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.Image: ReachAutomotiveSCHURTER AGAEC-0200 is a test standard for passive components used in automotive applications. SCHURTER tests components according to the customer's	Identification	Details	Initiator	Description
Top RoHS SCHURTER AG Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 Image: 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. Image: 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. Image: China RoHS SCHURTER AG SCHURTER strives to offer our customers halogen free products. Image: China RoHS 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. Image: China RoHS SCHURTER AG Automotive SCHURTER AG	CE	CE declaration of conformity	SCHURTER AG	requirements laid down in the harmonisation of Community legislation on
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 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 "REACH") entered into force. Automotive SCHURTER AG AEC-0200 is a test standard for passive components used in automotive applications. SCHURTER tests components according to the customer's	UK CA	UKCA declaration of conformity	SCHURTER AG	requirements laid down in the British Amendment of Regulation (EC)
Weight of the series of the	ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
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 "REACH") entered into force. AECC Automotive SCHURTER AG AEC-0200 is a test standard for passive components used in automotive applications. SCHURTER tests components according to the customer's	©	China RoHS	SCHURTER AG	
REACH Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. AEC Q200 Automotive SCHURTER AG AEC-Q200 is a test standard for passive components used in automotive applications. SCHURTER tests components according to the customer's	Halogen Free III	Halogen Free	SCHURTER AG	SCHURTER strives to offer our customers halogen free products.
Q200 applications. SCHURTER tests components according to the customer's	REACH	REACH	SCHURTER AG	Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as
	AEC Q200	Automotive	SCHURTER AG	applications. SCHURTER tests components according to the customer's

Dimension [mm] Soldering pads

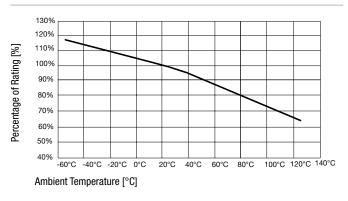
______ 11.4 mm







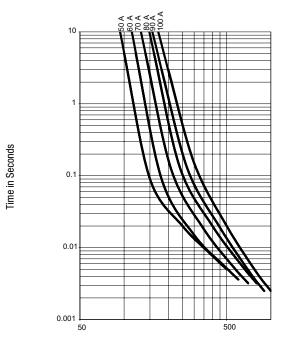
Derating Curves



Pre-Arcing Time

Rated Current In	1.0 x In min.	2.0 x In max.	10.0 x In min.	10.0 x In max.
50 A - 100 A	4 h	15 s	1 ms	10 ms

Time-Current-Curves



Current in Amperes

All Variants

Rated Cur- rent [A]	Rated Vol- tage [VDC]	Marking	Breaking Ca- pacity	Voltage Drop 1.0 I _n typ. [mV]	Cold Resistance typ. [mΩ]	Melting I²t 10.0 I _n typ. [A²s]	Packaging unit [PCS]	Order Number
50	80	UHP 50A	1)	90	1.44	1250	100	3-139-122
50	80	UHP 50A	1)	90	1.44	1250	500	3-139-123
60	80	UHP 60A	1)	90	1.18	1350	100	3-139-124
60	80	UHP 60A	1)	90	1.18	1350	500	3-139-125
70	80	UHP 70A	1)	95	1.01	1600	100	3-139-126
70	80	UHP 70A	1)	95	1.01	1600	500	3-139-127
80	80	UHP 80A	1)	97	0.89	2100	100	3-139-128
80	80	UHP 80A	1)	97	0.89	2100	500	3-139-129
90	80	UHP 90A	1)	105	0.81	2300	100	3-139-130
90	80	UHP 90A	1)	105	0.81	2300	500	3-139-131
100	80	UHP 100A	1)	110	0.74	2800	100	3-139-132
100	80	UHP 100A	1)	110	0.74	2800	500	3-139-133

Most Popular.

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

1) 2000 A @ 80 VDC, 3000 A @ 63 VDC

All measurements are carried out on a test board according to IEC 60127, track width 22 mm, Cu layer 210 μm

Packaging Unit acc. IEC 60286-3 Type 2a 100 pcs. in tape [W: 24mm and P1: 16mm] in ESD plastic bag 500 pcs. in tape [W: 24mm and P1: 16mm] on reel [A: 33cm]



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