

Subminiature Fuse, 6.4 x 6.4 mm



UL 248-14 · 125 VAC · 125 VDC · Quick-Acting F

**Description**

- Directly solderable on printed circuit boards

Standards

- UL 248-14
- CSA C22.2 no. 248.14
- Telcordia GR-1089
- UL 60950 / IEC 60950
- ITU-T K.20 and K.21
- TIA-968-A

Approvals

- UL File Number: E41599

Applications


- xDSL and ADSL linecards and modems

References

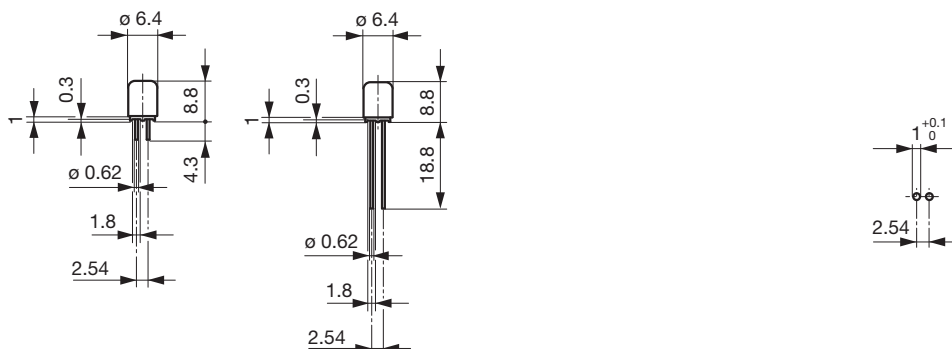
General Product Information

Time-Current Curves see last page

Corresponding Fuseholder [FME](#); [FMR](#); [FMS \(125V\)](#)[Packaging Details](#)**Weblinks**Approvals: <http://www.schurter.com/approvals>RoHS: <http://www.schurter.com/rohs>**Technical Data**

Rated Voltage	125 VAC, 125 VDC
Rated Current	0.25 - 3.15 A
Breaking Capacity	300 A
Characteristic	Quick-Acting F
Mounting	PCB,THT
Admissible Ambient Air Temp.	-25 °C to 85 °C
Climatic Category	25/085/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.34 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Voltage Rating, Characteristic, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A
Current Carrying Capacity	acc. to EIA/IS-722, Test 4.3.3
Life Test	MIL-STD-202, Method 108A (1000h @ 0.42*In @ 70°C)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Vibration, High Frequency	MIL-STD-202, Method 204D (Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.)
Resistance to Solvents	MIL-STD-202, Method 215A

DimensionsLength  6.4 mm

Drilling Diagram

Pre-Arcing Time

Rated Current In	1.5 x In max.	2.0 x In max.	2.75 x In max.	4.0 x In max.	10.0 x In max.
0.25 A - 3.15 A	10 min	5 s	300 ms	30 ms	4 ms

Variants

S = Short Terminals

L = Long Terminals

T = Taped and Reeled

Order Number	S	L	T	Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Voltage Drop 1.0 In typ [mV]	Power Dissipation 1.0 In typ [mW]	Melting I ² t 10.0 In typ [A ² s]	GR-1089-CORE [A]	UL60950	ITU - Lightning Surge [A]	ITU - Power Induc-	ITU - Power Contact [A]
2030.0013	●			0.25	125	125	620	100	0.0055	< 1.5	●	4.5	●	300.0
2030.0014	●			0.315	125	125	680	200	0.025	< 1.5	●	5.6	●	300.0
2030.0015	●			0.4	125	125	180	100	0.013	1.6	●	5.9	●	300.0
2030.0016	●			0.5	125	125	180	100	0.02	2.4	●	6.4	●	300.0
2030.0017	●			0.63	125	125	180	100	0.045	2.7	●	7.2	●	300.0
2030.0018	●			0.71	125	125	140	100	0.045	2.9	●	7.8	●	300.0
2030.0019	●			0.75	125	125	170	100	0.02	3.0	●	8.5	●	300.0
2030.0020	●			0.8	125	125	150	100	0.04	5.0	●	11	●	300.0
2030.0021	●			1	125	125	150	100	0.07	6.0	●	16	●	300.0
2030.0022	●			1.25	125	125	150	200	0.12	9.3	●	21	●	300.0
2030.0023	●			1.6	125	125	150	200	0.29	> 14.0	●	35	●	300.0
2030.0024	●			2	125	125	130	200	0.43	> 14.0	●	38	●	300.0
2030.0025	●			2.5	125	125	120	300	0.6	> 14.0	●	57	●	300.0
2030.0026	●			3.15	125	125	120	400	1.11	> 14.0	●	65	●	300.0
2030.0243		●		0.25	125	125	620	100	0.0055	< 1.5	●	4.5	●	300.0
2030.0244		●		0.315	125	125	680	200	0.025	< 1.5	●	5.6	●	300.0
2030.0245		●		0.4	125	125	180	100	0.013	1.6	●	5.9	●	300.0
2030.0246		●		0.5	125	125	180	100	0.02	2.4	●	6.4	●	300.0
2030.0247		●		0.63	125	125	180	100	0.045	2.7	●	7.2	●	300.0
2030.0248		●		0.71	125	125	140	100	0.045	2.9	●	7.8	●	300.0
2030.0249		●		0.75	125	125	170	100	0.02	3.0	●	8.5	●	300.0
2030.0250		●		0.8	125	125	150	100	0.04	5.0	●	11	●	300.0
2030.0251		●		1	125	125	150	100	0.07	6.0	●	16	●	300.0
2030.0252		●		1.25	125	125	150	200	0.12	9.3	●	21	●	300.0
2030.0253		●		1.6	125	125	150	200	0.29	> 14.0	●	35	●	300.0
2030.0254		●		2	125	125	130	200	0.43	> 14.0	●	38	●	300.0
2030.0255		●		2.5	125	125	120	300	0.6	> 14.0	●	57	●	300.0
2030.0256		●		3.15	125	125	120	400	1.11	> 14.0	●	65	●	300.0
2030.0543			●	0.25	125	125	620	100	0.0055	< 1.5	●	4.5	●	300.0
2030.0544			●	0.315	125	125	680	200	0.025	< 1.5	●	5.6	●	300.0
2030.0545			●	0.4	125	125	180	100	0.013	1.6	●	5.9	●	300.0
2030.0546			●	0.5	125	125	180	100	0.02	2.4	●	6.4	●	300.0
2030.0547			●	0.63	125	125	180	100	0.045	2.7	●	7.2	●	300.0
2030.0548			●	0.71	125	125	140	100	0.045	2.9	●	7.8	●	300.0
2030.0549			●	0.75	125	125	170	100	0.02	3.0	●	8.5	●	300.0
2030.0550			●	0.8	125	125	150	100	0.04	5.0	●	11	●	300.0
2030.0551			●	1	125	125	150	100	0.07	6.0	●	16	●	300.0
2030.0552			●	1.25	125	125	150	200	0.12	9.3	●	21	●	300.0
2030.0553			●	1.6	125	125	150	200	0.29	> 14.0	●	35	●	300.0
2030.0554			●	2	125	125	130	200	0.43	> 14.0	●	38	●	300.0
2030.0555			●	2.5	125	125	120	300	0.6	> 14.0	●	57	●	300.0
2030.0556			●	3.15	125	125	120	400	1.11	> 14.0	●	65	●	300.0

1) 50 A @ 125 VAC

Packaging Unit

S + L = Plastic Bag (100 pcs.)

T = Taped 36 cm Reel (1000 pcs.)

MSU 125

