

MINI® Series

Blade Fuses – Rated 32V



Description

MINI® 32V automotive blade fuses boast a miniature design that allows automakers to pack more circuit protection into less space. Despite their light weight, MINI® fuses perform reliably in adverse environments and at extreme temperatures.

Features & Benefits

- Color coding indicates amperage rating for each fuse
- See-through housings make it easier to see when fuses blow
- High-contrast ampere stamps on the top of the housing aids identification
- Checkpoints on top make it possible to measure resistance without removing the fuse
- Simple to install and remove
- Comply with ISO 8820-3

Applications

- Cars / SUVs
- Trucks
- Offroad vehicles
- Buses
- Watercraft as approved by Littelfuse®

Agency Approvals

Agency	Agency File Number	Current Rating (A)
	20150609-E71611	2 – 30

Additional Information



Resources



Samples

See Disclaimer Notice

Specifications

Voltage Rating:	32 V DC
Interrupting Rating:	1000 A @ 32 V DC
Recommended Environmental Temperature:	–40 °C to +125 °C
Terminals Material:	Silver-plated or Tin-plated zinc alloy *
Housing Material:	PA66 (UL 94 Flammability rating of V-2)
Typical Weight per Fuse:	0.57 g
Comply With:	Ag plated: SAE J2077, ISO 8820-3, UL 248 Special Purpose Fuses Sn plated: SAE J2077, ISO 8820-3 not UL recognized

*Note: Tin plating's temperature limit is ≈130°C. Silver plating allows up to 150°C at the terminal interface.

Ordering Information

Part Name	Part Number	Current Rating (A)	Package Size
Ag plated	0297xxx.WXNV	2 - 30 & SHUNT	3000
	0297xxx.U	2 - 30	500
	0297xxx.H	2 - 30	100
	0297xxx.L	2 - 30	50
Sn plated	0297xxx.WXT	2 - 30	3000

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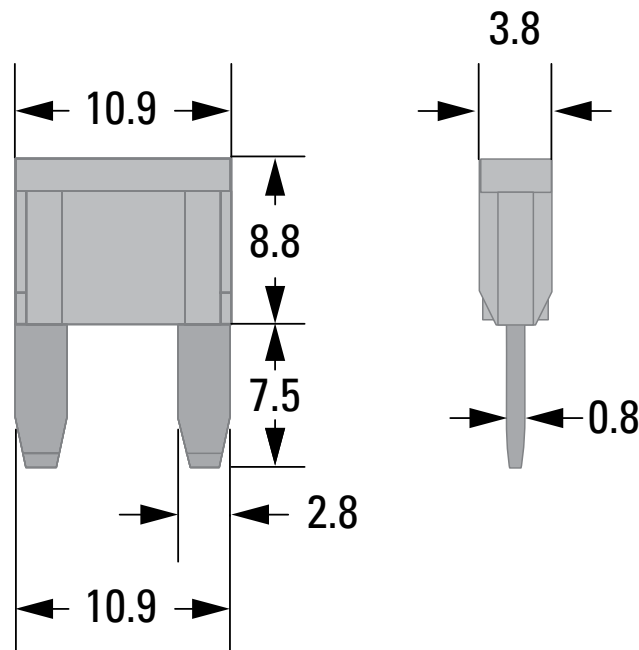
Ratings

Part Number	Current Rating (A)	Housing Material Color	Test Cable Size (mm ²)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I ² t (A ² s)
0297002_	2		0.5	171	55.60	9
0297003_	3		0.5	153	33.75	20
0297004_	4		0.5	121	23.48	31
0297005_	5		0.5	129	17.75	37
0297075_	7.5		0.75	135	10.85	82
0297010_	10		1	108	7.42	122
0297015_	15		1.5	98	4.58	308
0297020_	20		2.5	96	3.21	442
0297025_	25		2.5	86	2.36	622
0297030_	30		4	87	1.85	1230
0297900_	SHUNT	ST	-	-	-	-

Note: The typical I²t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

Dimensions

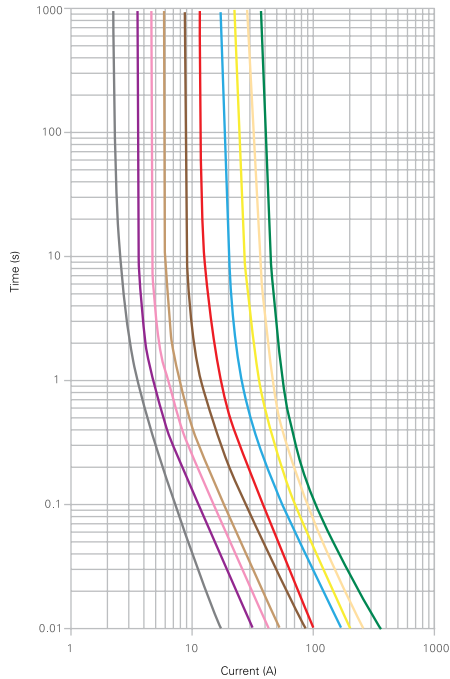
Dimensions in mm. Please refer to the outline drawing for dimensions and tolerances.



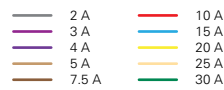
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Time-Current Characteristic



% of Rating	Opening Time Min. / Max. (s)
110	360 000 / -
135	0.75 / 600
200	0.15 / 5
350	0.08 / 0.5
600	0.03 / 0.1

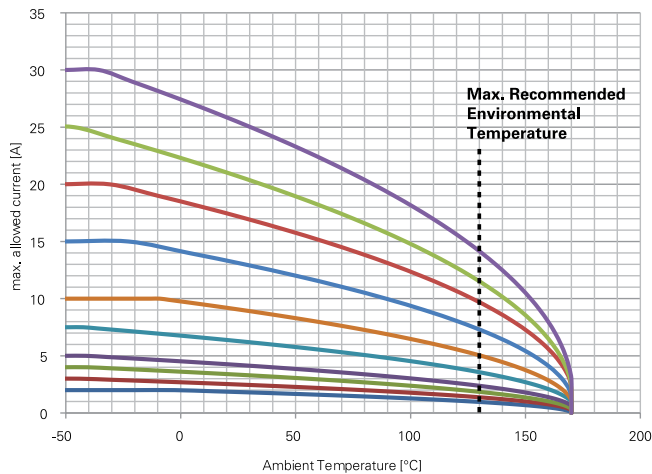


Note: Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc.). Please contact Littelfuse® for more information.

Typical Derating Curves

Temperature security margin is 20%.

Please contact Littelfuse® for Details Regarding Derating Test Set Up.



	Max. allowed current load (A) at ambient temperature based on typical derating							
	-40 °C	-20 °C	0 °C	20 °C	40 °C	60 °C	80 °C	100 °C
2A	2.0	2.0	2.0	1.9	1.7	1.6	1.4	1.3
3A	3.0	2.8	2.7	2.5	2.4	2.2	2.0	1.8
4A	4.0	3.8	3.6	3.4	3.2	2.9	2.7	2.4
5A	5.0	4.8	4.5	4.3	4.0	3.7	3.4	3.0
7.5A	7.5	7.1	6.8	6.4	6.0	5.5	5.1	4.5
10A	10	10	9.8	9.2	8.6	8.0	7.3	6.5
15A	15	15	14	13	12	12	11	9.0
20A	20	19	18	17	16	15	14	12
25A	25	24	22	21	20	18	17	15
30A	30	29	27	26	24	22	20	18



Note 1: MINI SHUNT Maximum Continuous Load at 85°C: 20A

Note 2: Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc.). Please contact Littelfuse® for more information.

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at <https://www.littelfuse.com/legal/disclaimers/product-disclaimer.aspx>