



#### MINI® Blade Fuses



MINI<sup>®</sup> Shunt

# MINI® Blade Fuses Rated 32V

The MINI® Fuse is the standard for vehicle circuit protection. Its miniature design meets the need for more circuits to be protected while utilizing less space, and its ability to cope with high temperatures in adverse environments makes the MINI® Fuse of recommended choice for protection.

Specifications	MINI	MINI Sn		
	(Silver Plated)	(Tin Plated)		
Voltage Rating:	32 VDC	32 VDC		
Interrupting Rating:	1000A @ 32 VDC	1000A @ 32 VDC		
*Recommended Environmental Temperature:	-40°C to +125°C	-40°C to +125°C		
Terminals Material:	Silver plated zinc alloy	Tin plated zinc alloy		
	PA66	PA66		

Housing Material: (U.L. 94 Flammability rating - V2) (U.L. 94 Flammability rating - V2) Thermoplastic

MINI® Shunt Housing Material: (U.L. 94 Flammability rating – V0)

0.57±5% gr 0.57±5% gr 0.57±5% gr

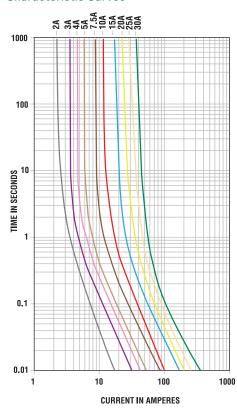
Net Weight Per Fuse:SAE J2077, ISO 8820-3,SAE J2077, ISO 8820-3Complies with:UL 248 Special Purpose Fusesnot UL recognized





<sup>\*</sup>Tin plating's temperature limit is ≈130°C. Silver plating allows up to 150°C at the terminal interface.

# Time-Current Characteristic Curves



## **Ordering Information**

3						
	Part Number	Rating	Package Size			
	0297xxx.WXNV	2 - 30 & SHUNT	3000			
	0297xxx.U	2 - 30	500			
	0297xxx.H	2 - 30	100			
	0297xxx.L	2 - 30	50			
	MINI® Sn Fuse					
	0297xxx.WXT	2 - 30	3000			

## **Time-Current Characteristics**

% 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			

## Ratings

Part Number	Current Rating (A)	Housing Material Color	Test Cable Size (mm²)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (m $\Omega$ )	Typ. I <sup>2</sup> t (A <sup>2</sup> s)
0297002	2		0.5	171	55.60	2.8
0297003	3		0.5	153	33.75	9.4
0297004	4		0.5	121	23.48	17
0297005	5		0.5	129	17.75	25
029707.5_	7.5		0.75	135	10.85	68
0297010	10		1	108	7.42	93
0297015	15		1.5	98	4.58	270
0297020	20		2.5	96	3.21	380
0297025	25		2.5	86	2.36	625
0297030	30		4	87	1.85	1,100
0297900	SHUNT		-	-	-	-

The typical I<sup>2</sup>t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

### REV11042021

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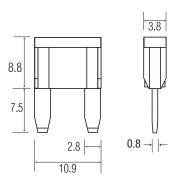
# Blade Fuses



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### **Dimensions**

Dimensions in mm for reference only. See outline drawing for dimensions and tolerances.



### Temperature Table

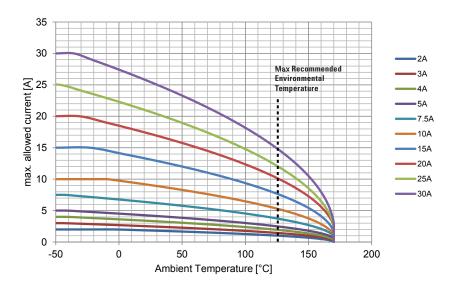
	max. allowed current load [A] at ambient temperature (typical derating)							
	-40°C	-20°C	0°C	20°C	40°C	60°C	80°C	100°C
2A	2.0	2.0	2.0	1.9	1.7	1.6	1.4	1.3
3 <b>A</b>	3.0	2.8	2.7	2.5	2.4	2.2	2.0	1.8
4A	4.0	3.8	3.6	3.4	3.2	2.9	2.7	2.4
5A	5.0	4.8	4.5	4.3	4.0	3.7	3.4	3.0
7.5A	7.5	7.1	6.8	6.4	6.0	5.5	5.1	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

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

# Typical Derating of Fuse Melting Element

Temperature Security Margin is 20%

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



Derating curves may change depending on the final condition of the application (terminals characteristics, wire size etc...). Please ask Littelfuse® for more information.

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