ATOF® Series

Blade Fuses – Rated 32V

Description

ATOF® automotive blade fuses were developed to take the place of obsolete ATO Series 257 fuses. Automakers consider ATOF fuses standard equipment for protecting low-voltage circuits.

Features & Benefits

- Color coding indicates amperage rating
- See-through housings make it easier to see when fuses blow
- Checkpoints on top make it possible to measure resistance without removing the fuse
- Shunt version available (Tin plated only)
- High-contrast ampere stamps on housings aid identification
- Simple to install and remove
- Comply with ISO 8820-3

Applications

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

See Disclaimer Notice

Agency Approvals

Agency	Agency File Number	Current Rating (A)
	20150609-E71611	1 – 40

Additional Information

Resources

Samples

Specifications

Voltage Rating:	32 V DC
Interrupting Rating:	1000 A @ 32 V DC
Recommended Environmental Temperature:	–40 ˚C to +125 ˚C (ATOF®) –40 ˚C to +105 ˚C (ATOF® Shunt)
Terminals Material:	Tin- or silver-plated*
Housing Material:	PA66 (UL 94 Flammability rating of V-2)
Typical Weight Per Fuse:	1.4 g
Comply With:	SAE J1284 and ISO 8820-3
UL Listed:	File AU1410
CSA Certified:	File No. 29862

***Note:** Silver plating allows up to 150 ˚C at the terminal interface.

Ordering Information

Part Name	Part Number	Current Rating (A)	Package Size
ATOF® (Tin Plated)	0287xxx.PXCN	1–40 & Shunt	2000
	0287xxx.U	1–40	500
	0287xxx.H	1–40	100
	0287xxx.L	1–40	50
ATO Ag (Silver-Plated)	0287xxx.PXS	1–40	2000

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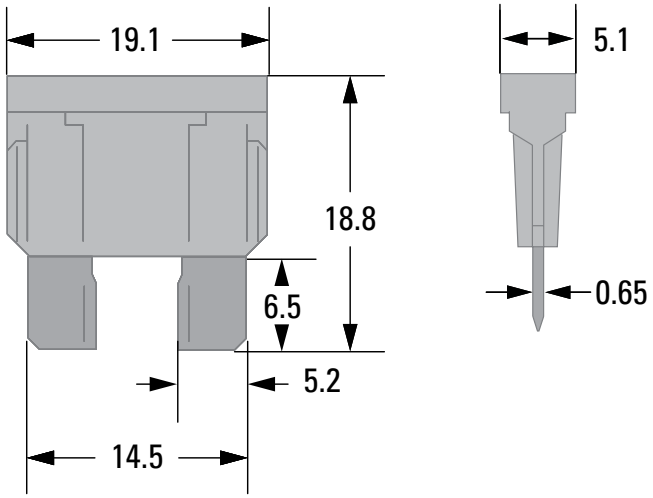
Ratings

Part Number	Current Rating (A)	Housing Material Color	Test Cable Size (mm^2)	Typ. Voltage Drop (mV)	Typ. Cold Resistance (mΩ)	Typ. I^2t (A^2s)
0287001._	1		0.35	176	123	0.4
0287002._	2		0.35	141	53.5	1.4
0287003._	3		0.35	137	31.1	7.4
0287004._	4		0.35	136	22.8	14
0287005._	5		0.5	128	17.85	26
028707.5_	7.5		0.75	116	10.91	60
0287010._	10		1	109	7.70	115
0287015._	15		1.5	102	4.80	340
0287020._	20		2.5	98	3.38	520
0287025._	25		2.5	92	2.52	1000
0287030._	30		4	84	1.97	1500
0287035._	35		6	87	1.61	2300
0287040._	40		6	96	1.44	3300
0287900._	SHUNT		-	-	-	-

Note: The typical I^2t 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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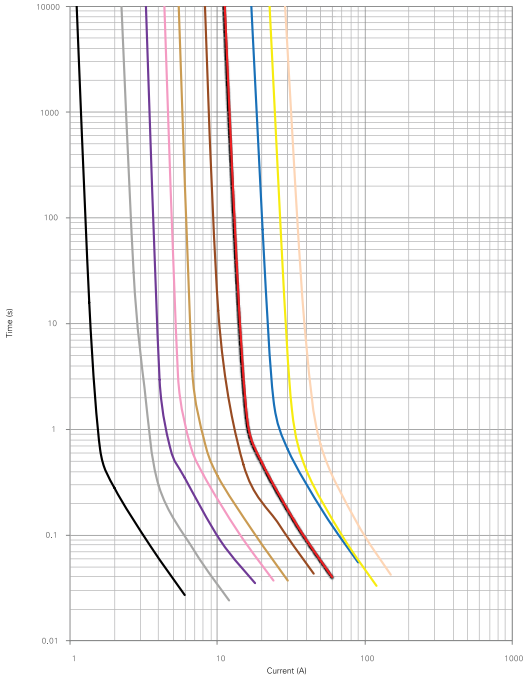
Time-Current Characteristic



% of Rating	Current Rating (A)	Opening Time Min. / Max. (s)
100	35 – 40	360 000 / –
110	1 – 30	360 000 / –
135	1 – 2 3 – 40	0.35 / 600 0.750 / 600
160	1 – 40	0.250 / 50
200	1 – 2 3 – 40	0.1 / 5 0.15 / 5
350	1 – 2 3 – 40	0.02 / 0.5 0.08 / 0.5
600	1 – 30 35 – 40	0.1 max 0.15 max

1 A, 2 A, 3 A, 4 A, 5 A, 7.5 A, 10 A, 15 A, 20 A, 25 A, 30 A, 35 A, 40 A

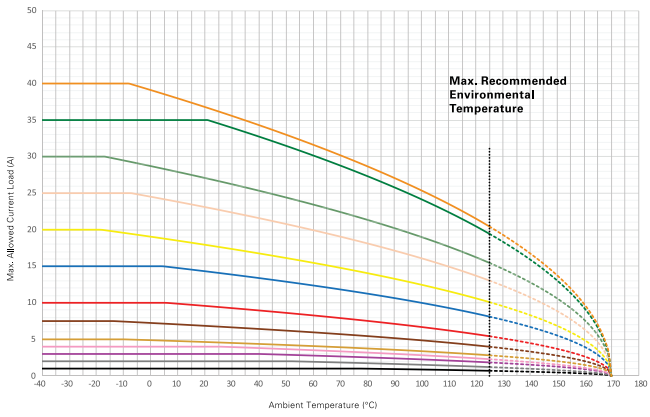
Note: Current recommendation may be impacted by the final condition of the application (terminals characteristics, wire size etc..). Please contact Littelfuse® for more information.

Typical Derating Curves

Temperature security margin is 20%.

Wire cross-section and fixture test setup refer to ISO 8820-3.

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



	Max. allowed current load (A) at ambient temperature based on typical derating (°C)						
	-40	0	20	65	85	110	125
1 A	1	1	1	1	1	1	1
2 A	2	2	2	2	2	1	1
3 A	3	3	3	3	2	2	2
4 A	4	4	4	3	3	3	2
5 A	5	5	5	4	4	3	3
7.5 A	8	7	7	6	5	5	4
10 A	10	10	10	8	7	6	5
15 A	15	15	14	12	11	9	8
20 A	20	19	18	15	14	12	10
25 A	25	25	23	19	18	15	13
30 A	30	29	27	23	21	18	15
35 A	35	35	35	29	27	22	19
40 A	40	39	37	31	28	24	20

1 A, 2 A, 3 A, 4 A, 5 A, 7.5 A, 10 A, 15 A, 20 A, 25 A, 30 A, 35 A, 40 A

Note 1: ATOF® SHUNT Maximum Continuous Load at 85°C: 40A.
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.