

Type 0697H

Slow Blow Lead Micro Fuse Series

HF  0697H Series

RoHS 6 Compliant

Description

Subminiature, radial lead, High I²t, time-lag design, rated 350VAC, 72 DC, up to 20A, Approved and complied with UL248-14.

Features

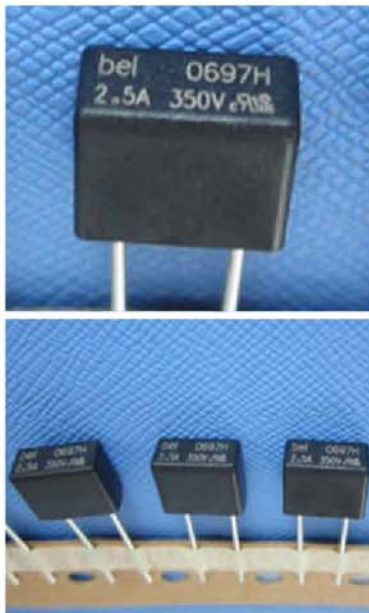
- High I²t, High amp ratings to 20A
- Time lag (350 VAC, 72 VDC)
- Meet UL 248-14
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS 6 compliant
- Halogen Free
- Leadfree

Applications





Provide individual protection for components or internal circuits.

- Power supplies
- Battery chargers
- Consumer Electronics
- Adapter
- Industrial Controllers

LEAD FREE = 
HALOGEN FREE = 



Physical Specifications

Materials	Base and Cover : Black thermoplastic, UL 94-V0
	Pins : 100% Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "0697H", "Current Rating", "350V" & "  "
	On Label :
	"bel", "0697H", "Current Rating", "Voltage Rating", "Interrupting Rating", "  " and "  ", "  "(China RoHS compliant).

Electrical Characteristics (UL 248-14)

Testing Current	Blow Time	
	Minimum	Maximum
100%	4 Hrs.	N/A
200%	N/A	60 Sec.

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	AMPERE RANGE / VOLT @ I.R. ABILITY	
	E20624	250mA to 3A	350V ac @100A 277V ac @150A 100V dc @ 65A 72V dc @ 200A
		3.15A to 20A	350V ac @150A 72V dc @200A

Specifications subject to change without notice



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Environmental Specifications

Shock Resistance	MIL-STD-202G, Method 213B, Test Condition 1 (100 G's peak for 6 milliseconds; Sawtooth waveform)
Vibration Resistance	MIL-STD-202G, Method 201A(10-55 Hz X 3 axis / no load).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test Condition B(48 hrs).
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G, Method 210F, Test Condition C. Top Side.(260°C,20 sec)
Moisture Resistance	MIL-STD-202G, Method 202G, Method 106G
Operating Temperature	-55°C to +125°C

Electrical Specifications

Part Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) max.	Voltage Rating (V)	Interrupting Rating	Melting I ² T <10 mSec (A ² Sec)	Melting I ² T @10 In (A ² Sec)	Maximum Power Dissipation (W)	Agency Approvals
									
0697H0250-XX	250mA	0.800	0.280	350	350V ac @100A	0.18	0.26	0.070	Y
0697H0315-XX	315mA	0.500	0.260	350		0.27	0.35	0.075	Y
0697H0400-XX	400mA	0.360	0.220	350		0.57	1.10	0.08	Y
0697H0500-XX	500mA	0.260	0.200	350	277V ac @150A	1.1	1.5	0.09	Y
0697H0630-XX	630mA	0.190	0.170	350		1.5	2.5	0.11	Y
0697H0800-XX	800mA	0.140	0.150	350		3.6	4.6	0.12	Y
0697H1000-XX	1A	0.085	0.130	350	100V dc @ 65A	6.1	8.5	0.13	Y
0697H1250-XX	1.25A	0.070	0.120	350		8	11	0.15	Y
0697H1600-XX	1.6A	0.050	0.100	350		13	16	0.18	Y
0697H2000-XX	2A	0.036	0.090	350	72V dc @ 200A	23	29	0.20	Y
0697H2500-XX	2.5A	0.027	0.087	350		35	47	0.22	Y
0697H3000-XX	3A	0.022	0.085	350		58	64	0.27	Y
0697H3150-XX	3.15A	0.021	0.083	350	350V ac @150A 72V dc @200A	58	70	0.29	Y
0697H4000-XX	4A	0.016	0.080	350		85	95	0.33	Y
0697H5000-XX	5A	0.013	0.080	350		130	140	0.35	Y
0697H6300-XX	6.3A	0.010	0.080	350		180	185	0.51	Y
0697H8000-XX	8A	0.007	0.080	350		325	335	0.77	Y
0697H9100-XX	10A	0.0055	0.080	350		370	390	0.90	Y
0697H9120-XX	12A	0.0047	0.090	350		360	480	0.96	Y
0697H9150-XX	15A	0.0035	0.090	350		563	575	1.10	Y
0697H9160-XX	16A	0.0033	0.090	350		610	650	1.20	Y
0697H9200-XX	20A	0.0026	0.090	350		1100	1100	1.90	Y

Consult manufacturer for other ratings
XX - Packaging code (see "ordering information")

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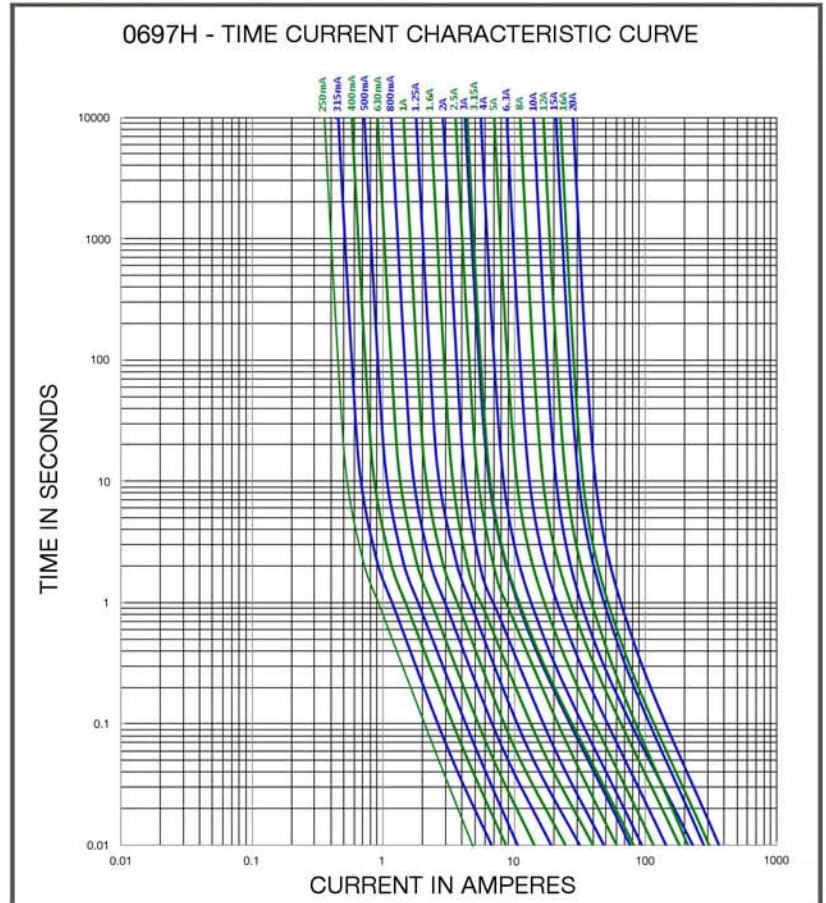
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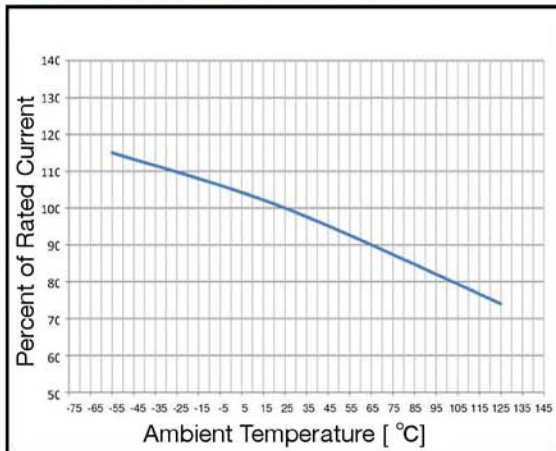
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RoHS 6 Compliant

Average Time Current Curve

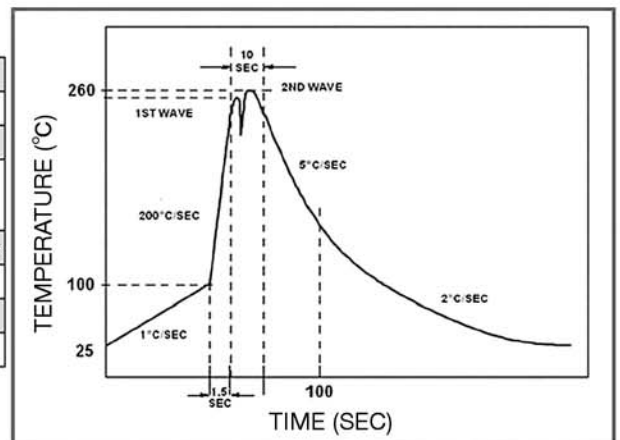


Temperature Derating Curve



Soldering Parameters

Lead-free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C/ second
Heating rate during preheat	typical 1 - 2°C/ second Max 4°C/ second
Final preheat temperature	within 125°C of soldering temperature
Peak temperature T _p	260°C
Time within +0°C/-5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C/ second max.



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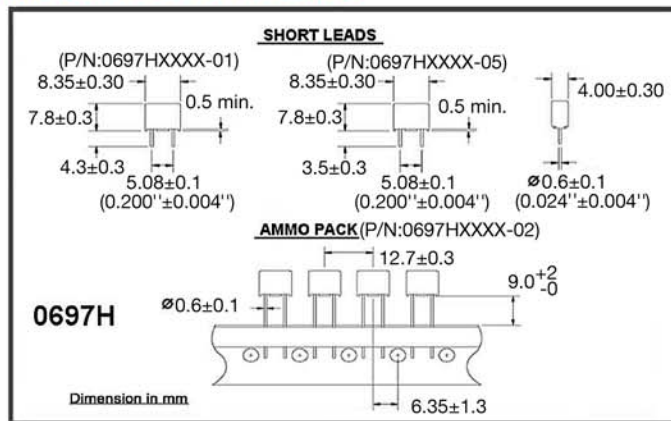
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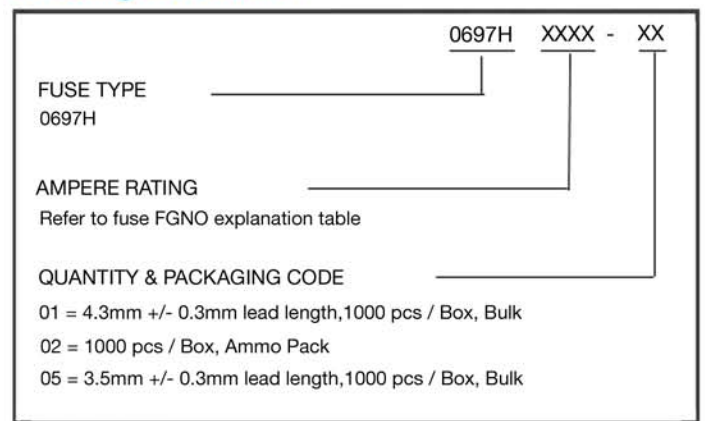
Fuse FGNO Explanation 06XX X [XXXX] X XX, [XXXX]=Ampere Rating

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]	Fraction	Decimal	Amps	Bel FGNO[XXXX]
1/32	0.032	32	0032	1.0	1	1000	
1/25	.040	40	0040	1-1/4	1.25	1.25	1250
1/20	.050	50	0050	1-1/2	1.50	1.5	1500
1/16	.063	63	0063		1.60	1.6	1600
8/100	.080	80	0080		2.0	2	2000
1/10	.100	100	0100	2-1/4	2.25	2.25	2250
1/8	.125	125	0125	2-1/2	2.5	2.5	2500
15/100	.150	150	0150		3.0	3	3000
	.160	160	0160		3.15	3.15	3150
2/10	.200	200	0200	3-1/2	3.5	3.5	3500
1/4	.250	250	0250		4.0	4	4000
3/10	.300	300	0300		5.0	5	5000
	.315	315	0315		6.0	6	6000
3/8	.375	375	0375		6.3	6.3	6300
4/10	.400	400	0400		7.0	7	7000
1/2	.500	500	0500	7-1/2	7.5	7.5	7500
6/10	.600	600	0600		8.0	8	8000
	.630	630	0630			10	9100
7/10	.700	700	0700			12	9120
3/4	.750	750	0750			15	9150
8/10	.800	800	0800			20	9200
						25	9250
						30	9300

Mechanical Dimensions



Ordering Information



Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code
Bulk / bag, 1000 / box	N/A	1000	01 , 05
12.7 mm pitch, On Tape / box	IEC-286-2	1000	02

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