

Type 0697H

Slow Blow Lead Micro Fuse Series

HF P6 0697H Series

RoHS Compliant

Description

Subminiature, radial lead, High I²t, time-lag design, rated 350VAC, 72 DC, up to 20A, Approved and complied with UL 248-14.

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
- AEC-Q Compliant
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free and Lead Free
- Meets Bel automotive qualification*
- Largely based on internal AEC-Q test plan

Applications

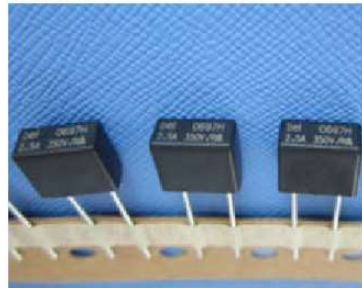
Provide individual protection for components or internal circuits.

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

LEAD FREE = P6
HALOGEN FREE = HF

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" & "cULus"
	On Label :
	"bel", "0697H", "Current Rating", "Voltage Rating", "Interrupting Rating", "cULus" and "RoHS" (China RoHS compliant).



UK CA TÜV cULus CE
AEC-Q 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	Ampere Rating/ Voltage Rating	Ampere Range / Volt @ I.R. ability*
cULus	E506667	250mA-3A/350V ac 100V dc	250mA-3A/350V ac @100A 277V ac @150A 100V dc @ 65A 72V dc @ 200A
		3.15A-20A/350V ac 72V dc	3.15A-20A/350V ac @150A 72V dc @200A
TÜV	R 50404484 IEC 60127-1: 2006+A1+A2 IEC 60127-7: 2016	10A/350V ac 20A/250V ac 10A or 20A/72V dc	10A/350V ac @150A 20A/250V ac @100A 10A or 20A/72V dc @ 200A

*I.R.= Interrupting Rating = Short Circuit Rating(Amps)

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

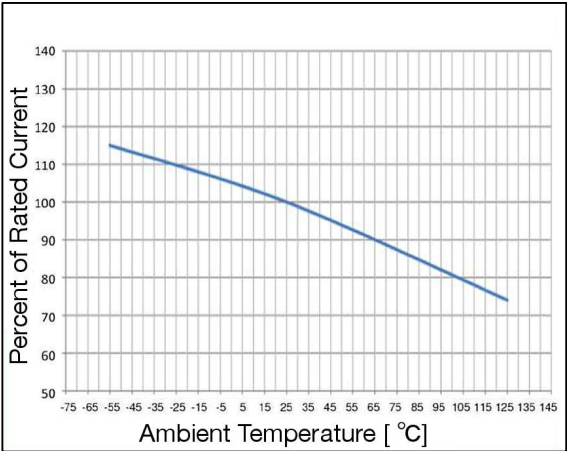
High temperature storage	MIL-STD-202 Method 108
Temperature cycling	JESD22 Method JA-104, Test Condition B
Biased humidity	MIL-STD-202 Method 103, 85°C/85% RH with 10% operating power for 1000 hrs.
Operational life	MIL-STD-202 Method 108, Test Condition D
Resistance to solvents	MIL-STD-202 Method 215
Mechanical shock	MIL-STD-202 Method 213, Test Condition C
Vibration	MIL-STD-202 Method 204
Resistance to soldering heat	MIL-STD-202 Method 210, Test condition B
Thermal shock	MIL-STD-202 Method 107
Solderability	J-STD-002
Board flex(SMD)	AEC-Q200-005
Terminal strength	AEC-Q200-006
Electrical characterization	3 temperature electrical

Electrical Specifications

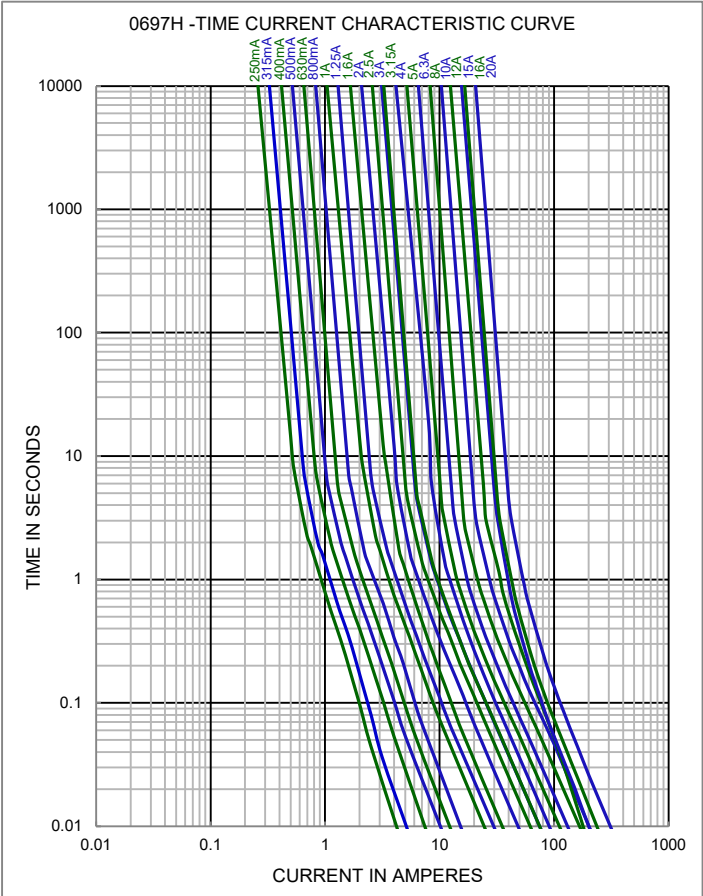
Part Number	Ampere Rating	Typical Cold Resistance (ohms)	Volt-drop @ 100% In (Volt) max.	Voltage and Interrupting Ratings	Nominal Melting I ² T <10 mSec (A² Sec)	Nominal Melting I ² T @10 In (A² Sec)	Maximum Power Dissipation (W)	Agency Approvals	
									
0697H0250-XX	250mA	0.810	0.280	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	0.17	0.28	0.070	Y	
0697H0315-XX	315mA	0.550	0.260		0.25	0.36	0.082	Y	
0697H0400-XX	400mA	0.360	0.220		0.52	0.85	0.088	Y	
0697H0500-XX	500mA	0.260	0.200		1.0	1.3	0.10	Y	
0697H0630-XX	630mA	0.190	0.170		1.4	2.0	0.11	Y	
0697H0800-XX	800mA	0.130	0.150		2.3	3.1	0.12	Y	
0697H1000-XX	1A	0.085	0.130		5.9	7.3	0.13	Y	
0697H1250-XX	1.25A	0.070	0.120		9	10	0.15	Y	
0697H1600-XX	1.6A	0.050	0.100		12	14	0.16	Y	
0697H2000-XX	2A	0.036	0.090		23	27	0.18	Y	
0697H2500-XX	2.5A	0.027	0.090		38	43	0.23	Y	
0697H3000-XX	3A	0.022	0.090		55	63	0.27	Y	
0697H3150-XX	3.15A	0.021	0.090		55	63	0.28	Y	
0697H4000-XX	4A	0.016	0.080		81	92	0.32	Y	
0697H5000-XX	5A	0.013	0.080		122	133	0.40	Y	
0697H6300-XX	6.3A	0.010	0.080		169	187	0.50	Y	
0697H8000-XX	8A	0.007	0.080		273	303	0.64	Y	
0697H9100-01	10A	0.0055	0.080		398	458	0.80	Y	
0697H9100-02								Y	
0697H9100-05								Y	
0697H9100-12								Y	Y
0697H9120-XX	12A	0.0047	0.090		303	457	1.08	Y	
0697H9150-XX	15A	0.0035	0.090		382	464	1.35	Y	
0697H9160-XX	16A	0.0033	0.090		545	627	1.44	Y	
0697H9200-01	20A	0.0026	0.090		937	1048	1.80	Y	
0697H9200-02								Y	
0697H9200-05								Y	
0697H9200-12								Y	Y

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

Temperature Derating Curve

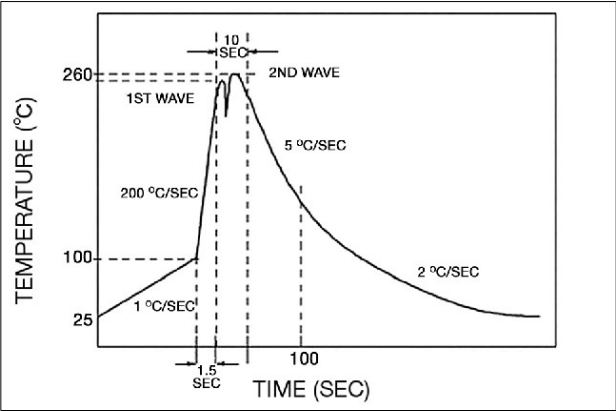


Average Time Current Curve



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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Fuse FGNO Explanation

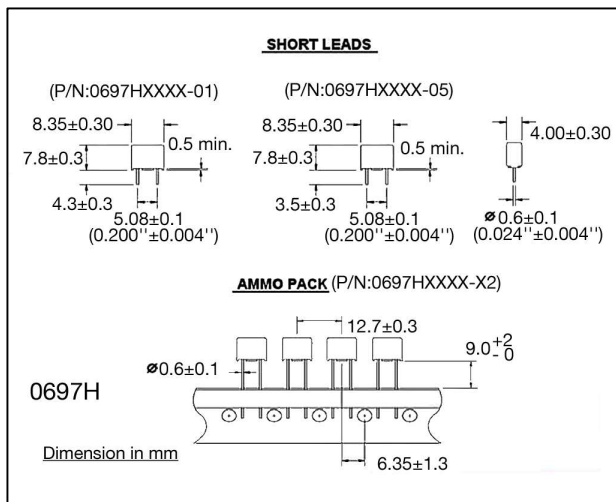
0697 H [XXXX] X XX

0697H=0697H; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
1/4	0.250	250	0250
	.315	315	0315
4/10	.400	400	0400
1/2	.500	500	0500
	.630	630	0630
8/10	.800	800	0800

Fraction	Decimal	Amps	Bel FGNO[XXXX]
	1.0	1	1000
1-1/4	1.25	1.25	1250
	1.60	1.6	1600
	2.0	2	2000
2-1/2	2.5	2.5	2500
	3.0	3	3000
	3.15	3.15	3150
	4.0	4	4000
	5.0	5	5000
	6.3	6.3	6300
	8.0	8	8000
		10	9100
		12	9120
		15	9150
		16	9160
		20	9200

Mechanical Dimensions



Ordering Information

0697H XXXX - XX

FUSE TYPE _____
0697H = 0697H Series

AMPERE RATING _____
Refer to fuse FGNO explanation table

QUANTITY & PACKAGING CODE _____
01 = 4.3mm +/- 0.3mm lead length, 1000 pcs / Box, Bulk
02 = 1000 pcs / Box, Ammo Pack, with UL approval ONLY
05 = 3.5mm +/- 0.3mm lead length, 1000 pcs / Box, Bulk
12 = 1000 pcs / Box, Ammo Pack, with UL and TUV approvals

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 , 12



Specifications subject to change without notice

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