

Type 0603C

Fast Blow Fuse Series

HF  0603C Series, 6.3x32mm Ceramic Tube Fast Blow Fuse

RoHS Compliant

Description

6.3x32mm Fast Blow, Ceramic tube body cartridge fuse designed, approved and complied with UL and CSA standard 248-14.



Features

- Meet UL and CSA standard 248-14
- Wide operating temperature range
- Bulk packing available
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free
- Lead Free

Applications



Provide individual protection for components or internal circuits.

- Power supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE = 
 HALOGEN FREE = 




Physical Specifications

Materials	Body : Ceramic
	Cap : Nickel Plated Brass Caps
	Leads : Tinned Copper Wire
Marking	On Fuse :
	"Current Rating", "Voltage Rating", "bel", "Appropriate Safety Logos"
	On Label :
	"bel", "0603C", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "  ", "  "(China RoHS compliant).

Electrical Characteristics (UL/CSA STD.248-14) Safety Agency Approvals

Testing Current	Blow Time	
	Minimum	Maximum
100%	4 hrs.	N/A
135%	N/A	1 hr.
200%	N/A	5 sec


Safety Agency	Safety Agency Certificate	Ampere Rating/ Voltage Rating	Ampere Range / Volt @ I.R. ability*
	E506667	1A-20A /250V AC /125V AC /150V DC	1A-20A/250V AC@1500A /125V AC@1500A /150V DC@1000A

*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, 0.06 inch, total excursion).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test Condition B (48 hrs).
Insulation Resistance	MIL-STD-202G, Method 302, Test Condition A (After Opening) 10,000 ohms minimum.
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G, Method 210F, Test Condition B (260+/-5°C, 10+/-1 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65°C to +125°C).
Operating Temperature	-55°C to +125°C
Terminal Strength	IEC-68-2-21

Electrical Specifications

Part Number	Ampere Rating	Typical Cold Resistance (ohms)	Volt-drop @100%In (Volt) max.	Voltage and Interrupting Ratings	I ² T (A ² Sec)	Maximum Power Dissipation (W)	Agency Approvals
							
0603C1000-XX	1A	0.406	0.650	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	0.456	0.65	Y
0603C1250-XX	1.25A	0.312	0.650		0.960	0.83	Y
0603C1600-XX	1.6A	0.241	0.550		1.59	0.88	Y
0603C2000-XX	2A	0.155	0.450		3.75	0.90	Y
0603C2500-XX	2.5A	0.090	0.400		3.30	1.00	Y
0603C3000-XX	3A	0.075	0.400		5.50	1.20	Y
0603C3500-XX	3.5A	0.062	0.400		8.02	1.40	Y
0603C4000-XX	4A	0.056	0.400		9.54	1.60	Y
0603C5000-XX	5A	0.040	0.400		19.87	2.00	Y
0603C6000-XX	6A	0.035	0.400		25.50	2.40	Y
0603C7000-XX	7A	0.025	0.350		53.90	2.45	Y
0603C8000-XX	8A	0.022	0.350		73.60	2.80	Y
0603C9100-XX	10A	0.015	0.350		133.92	3.50	Y
0603C9120-XX	12A	0.010	0.250		281.60	3.00	Y
0603C9150-XX	15A	0.0065	0.250		676	3.75	Y
0603C9200-XX	20A	0.0060	0.250		1176	5.00	Y

Consult manufacturer for other ratings

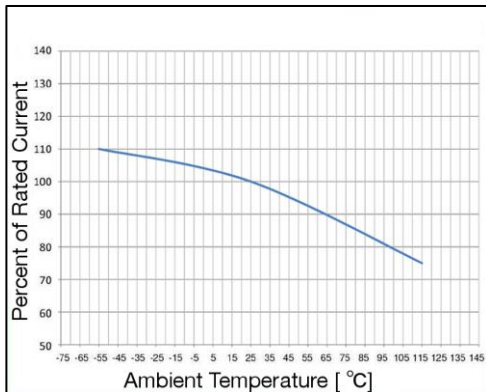


Specifications subject to change without notice

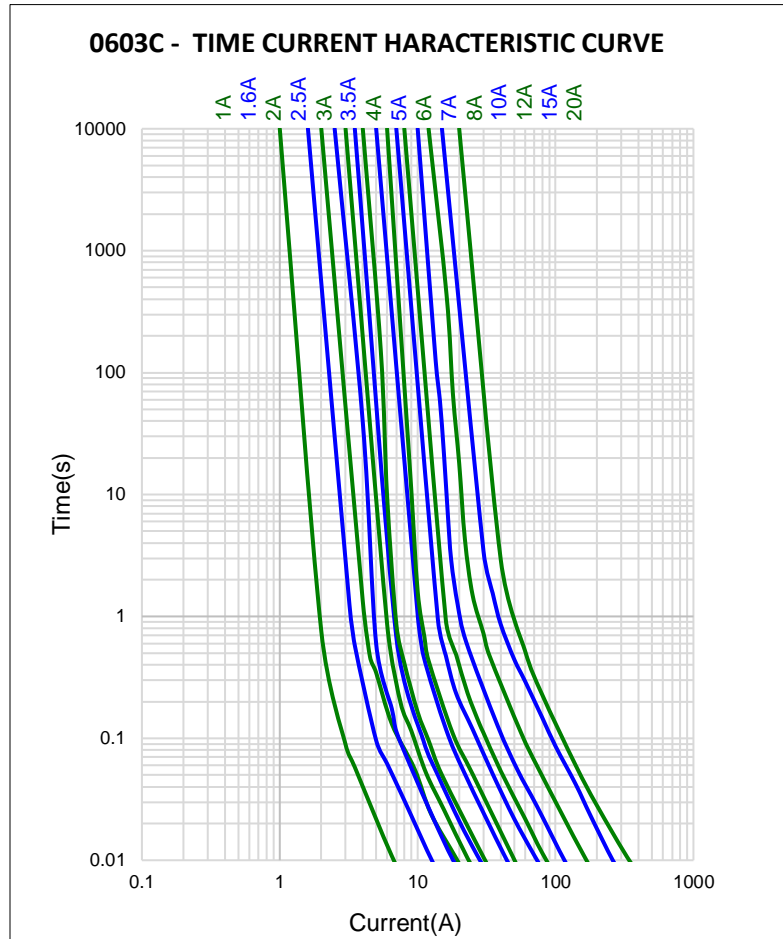
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Temperature Derating Curve

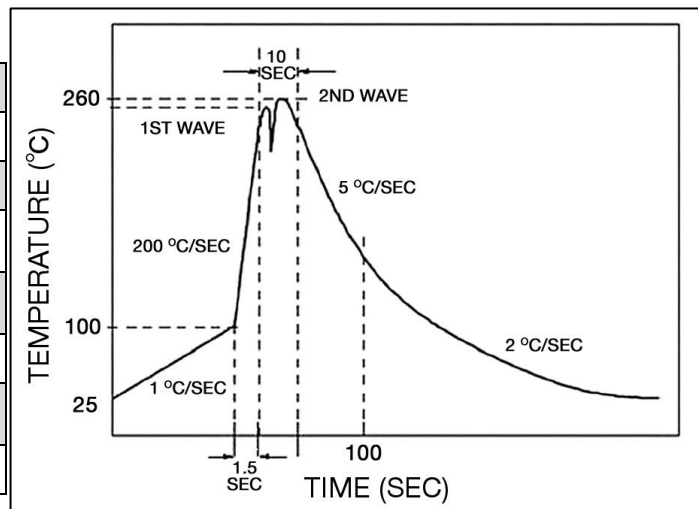


Average Time Current Curve



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 Tp	260°C
Time within +0°C / -5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C / second max.



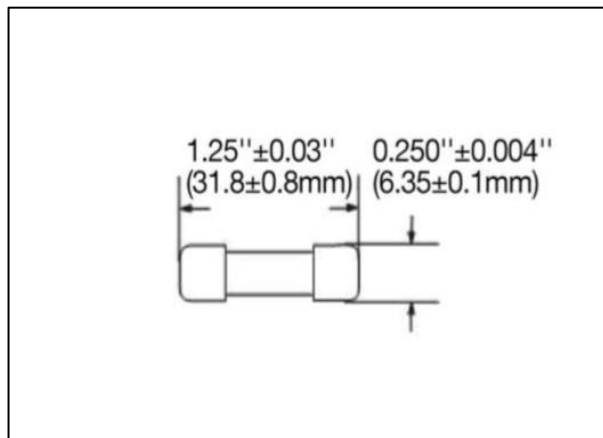
Fuse FGNO Explanation

0603 X [XXXX] -XX

0603C=0603C; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Fraction	Decimal	Amps	Bel FGNO[XXXX]
	1.0	1	1000
	1.60	1.6	1600
	2.0	2	2000
2-1/2	2.5	2.5	2500
	3.0	3	3000
3-1/2	3.5	3.5	3500
	4.0	4	4000
	5.0	5	5000
	6.0	6	6000
	7.0	7	7000
	8.0	8	8000
		10	9100
		12	9120
		15	9150
		20	9200

Mechanical Dimensions



Ordering Information

0603 X XXXX - XX

FUSE TYPE _____
0603= 0603 Series

Mounting Tab Style _____
C = For Cartridge Version

AMPERE RATING _____
Refer to fuse FGNO explanation table

PACKAGING&QUANTITY CODE _____
33 = Bulk 1000/box

Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk(For Cartridge Version)	N/A	1000	33	N/A



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