

Type 2JQ / 3JQ

Quick Acting Fuse Series

HF (Pb) 2JQ/3JQ Series, 5x15mm Glass Tube Quick Acting Fuse RoHS 6 Compliant

Description

5x15mm Quick Acting , glass 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 and Tape & Reel packing available
- RoHS 6 compliant
- Halogen Free
- Leadfree

Applications

Provide individual protection for components or internal circuits.

- Power supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE = (Pb)
HALOGEN FREE = (HF)

Physical Specifications

Materials	Body : Glass
	Cap : Nickel Plated Brass Caps
	Leads : Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "JQ", "Current Rating", "Voltage Rating",
	"Appropriate Safety Logos", "✓"(RoHS 6 compliant)
	On Label :
	"bel", "2JQ" or "3JQ", "Current Rating", "Voltage Rating", "Interrupting Rating", " Appropriate Safety Logos" and "Ⓜ", "Ⓢ" (China RoHS compliant).



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

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

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	VOLTAGE RATING (V)	AMPERE RANGE / VOLT @ I.R. ABILITY*
UL US	E20624	100mA - 7A /350V AC	100mA - 7A / 350V AC@ 100A 140V DC@ 150A
SP	LR39772		100mA - 7A / 350V AC@ 100A
PSE	JET1037-31003-1010 JET1037-31003-1011		1A - 5A / 125V AC @ 500A
	JET1037-31003-1007		>5A - 15A / 125V AC@ 300A

* I.R. = INTERRUPTING RATING = SHORT CIRCUIT RATING (AMPS)

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, 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

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) max.	Voltage and Interrupting Ratings	Melting I ² T <10 mSec (A ² Sec)	Melting I ² T @10 In (A ² Sec)	Maximum Power Dissipation (W)	Agency Approvals		
										
JQ 100-R	100mA	4.80	2.10	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	0.0010	0.0010	0.029	Y	Y	
JQ 125-R	125mA	4.29	2.05		0.0019	0.0020	0.035	Y	Y	
JQ 150-R	150mA	3.35	1.90		0.004	0.004	0.041	Y	Y	
JQ 200-R	200mA	2.01	1.70		0.007	0.008	0.048	Y	Y	
JQ 250-R	250mA	1.54	1.62		0.014	0.015	0.057	Y	Y	
JQ 300-R	300mA	1.18	1.55		0.026	0.029	0.067	Y	Y	
JQ 350-R	350mA	0.98	1.50		0.036	0.040	0.072	Y	Y	
JQ 400-R	400mA	0.46	0.60		0.05	0.06	0.079	Y	Y	
JQ 500-R	500mA	0.33	0.55		0.10	0.11	0.092	Y	Y	
JQ 600-R	600mA	0.26	0.48		0.14	0.16	0.10	Y	Y	
JQ 750-R	750mA	0.188	0.45		0.26	0.30	0.12	Y	Y	
JQ 800-R	800mA	0.170	0.40		0.27	0.40	0.17	Y	Y	
JQ 1-R	1A	0.112	0.40		0.62	0.65	0.21	Y	Y	Y
JQ 1.25-R	1.25A	0.068	0.17		0.80	0.82	0.26	Y	Y	Y
JQ 1.5-R	1.5A	0.056	0.16		1.4	1.4	0.32	Y	Y	Y
JQ 1.6-R	1.6A	0.054	0.16		1.8	1.9	0.35	Y	Y	Y
JQ 2-R	2A	0.041	0.16		2.3	2.5	0.39	Y	Y	Y
JQ 2.5-R	2.5A	0.033	0.15		4.0	4.3	0.48	Y	Y	Y
JQ 3-R	3A	0.027	0.15		4.6	5.6	0.59	Y	Y	Y
JQ 3.5-R	3.5A	0.022	0.14		9	10	0.66	Y	Y	Y
JQ 4-R	4A	0.019	0.14		12	13	0.73	Y	Y	Y
JQ 5-R	5A	0.015	0.13		20	23	0.9	Y	Y	Y
JQ 6-R	6A	0.012	0.13		35	40	1.1	Y	Y	Y
JQ 7-R	7A	0.010	0.12		46	53	1.2	Y	Y	Y

Consult manufacturer for other ratings

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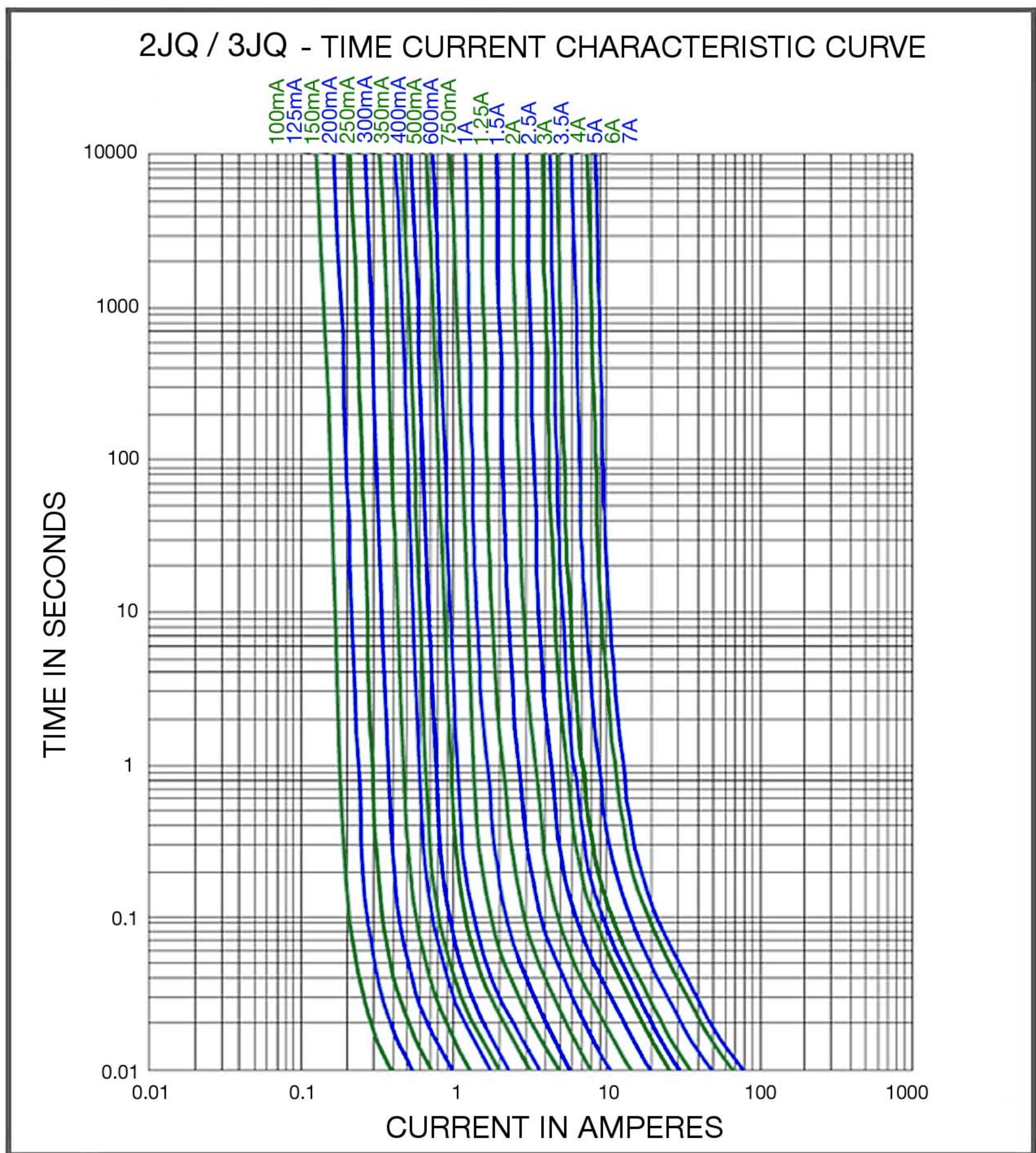
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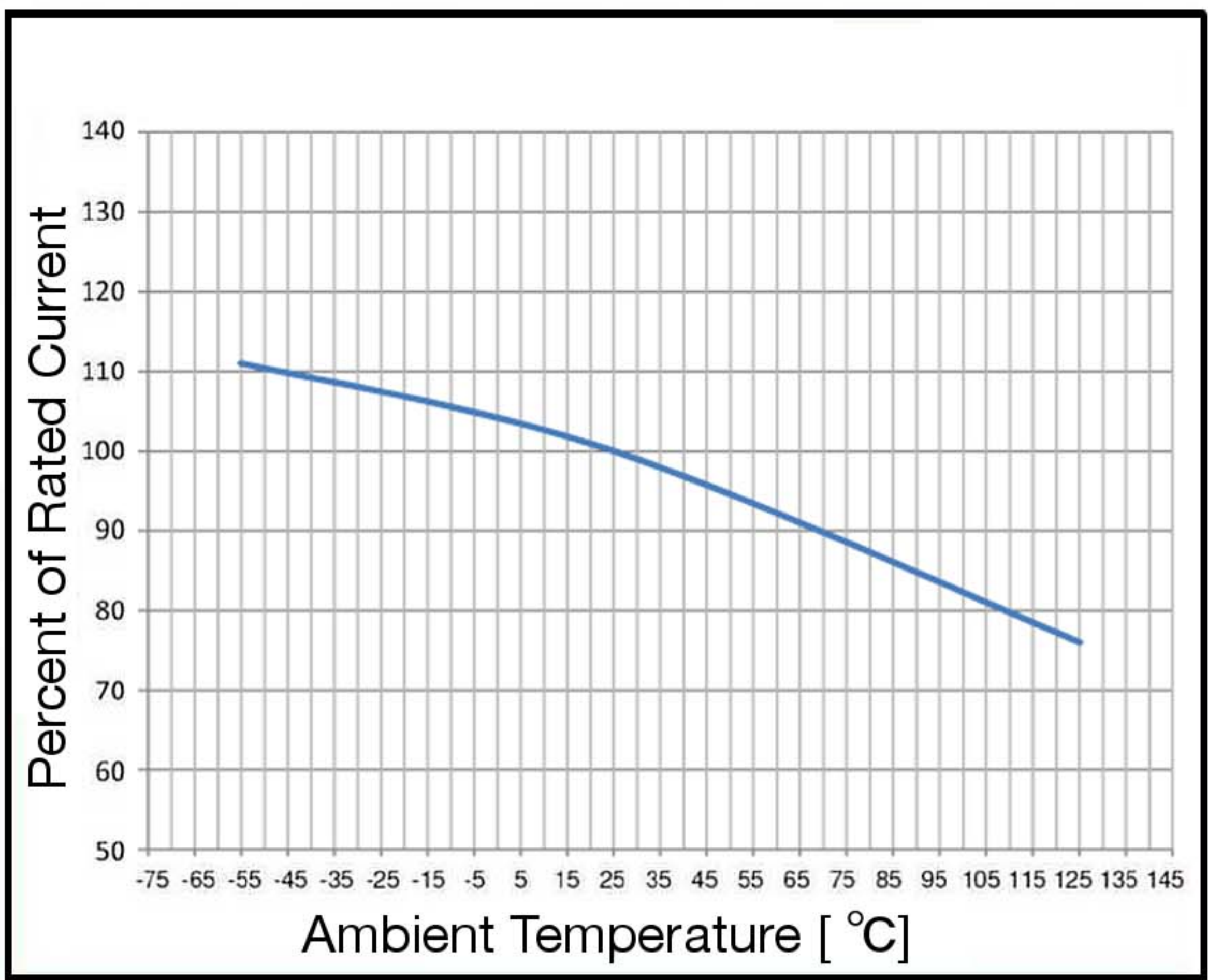
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Average Time Current Curve

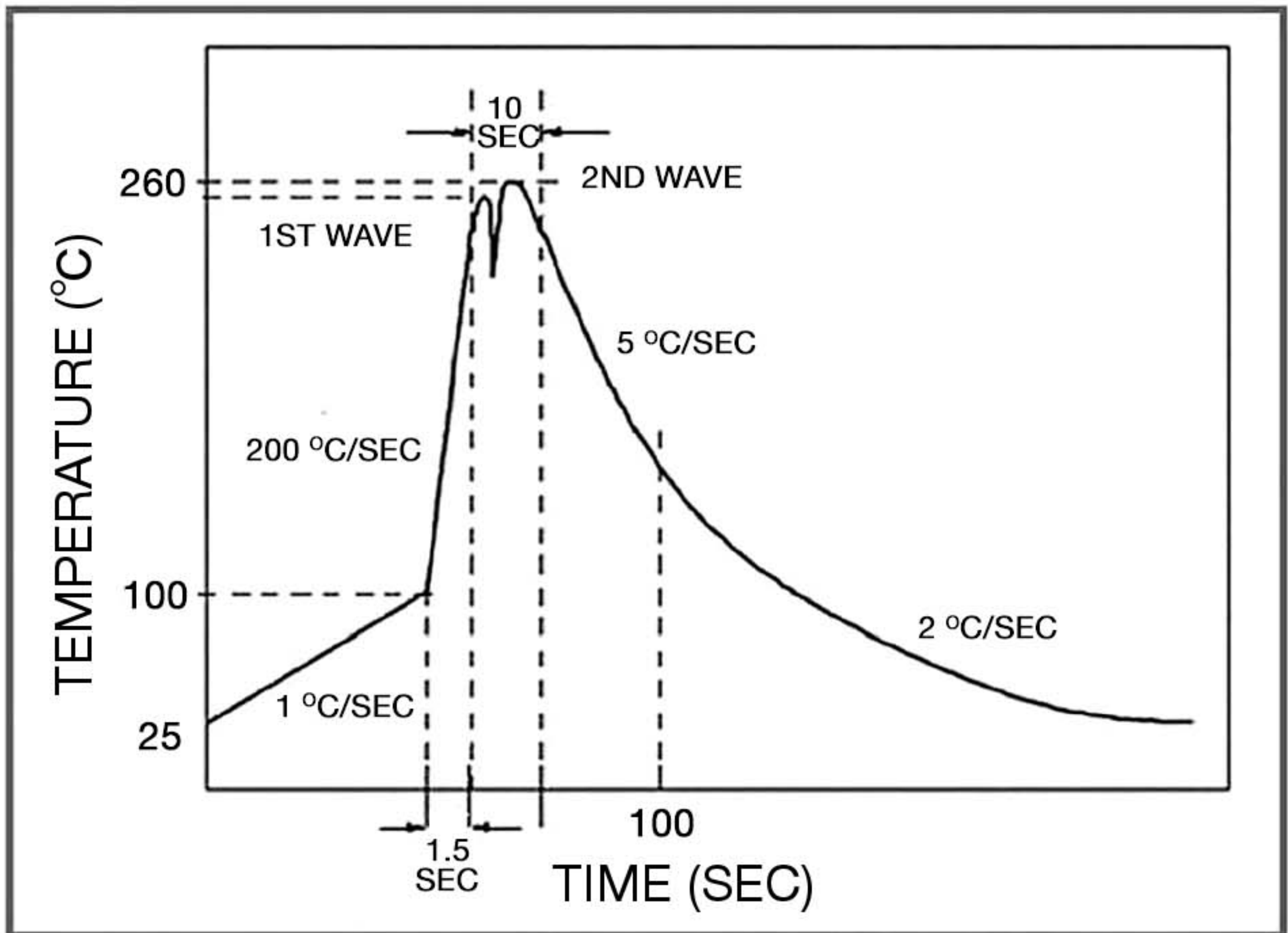


Temperature Derating Curve



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 Tp	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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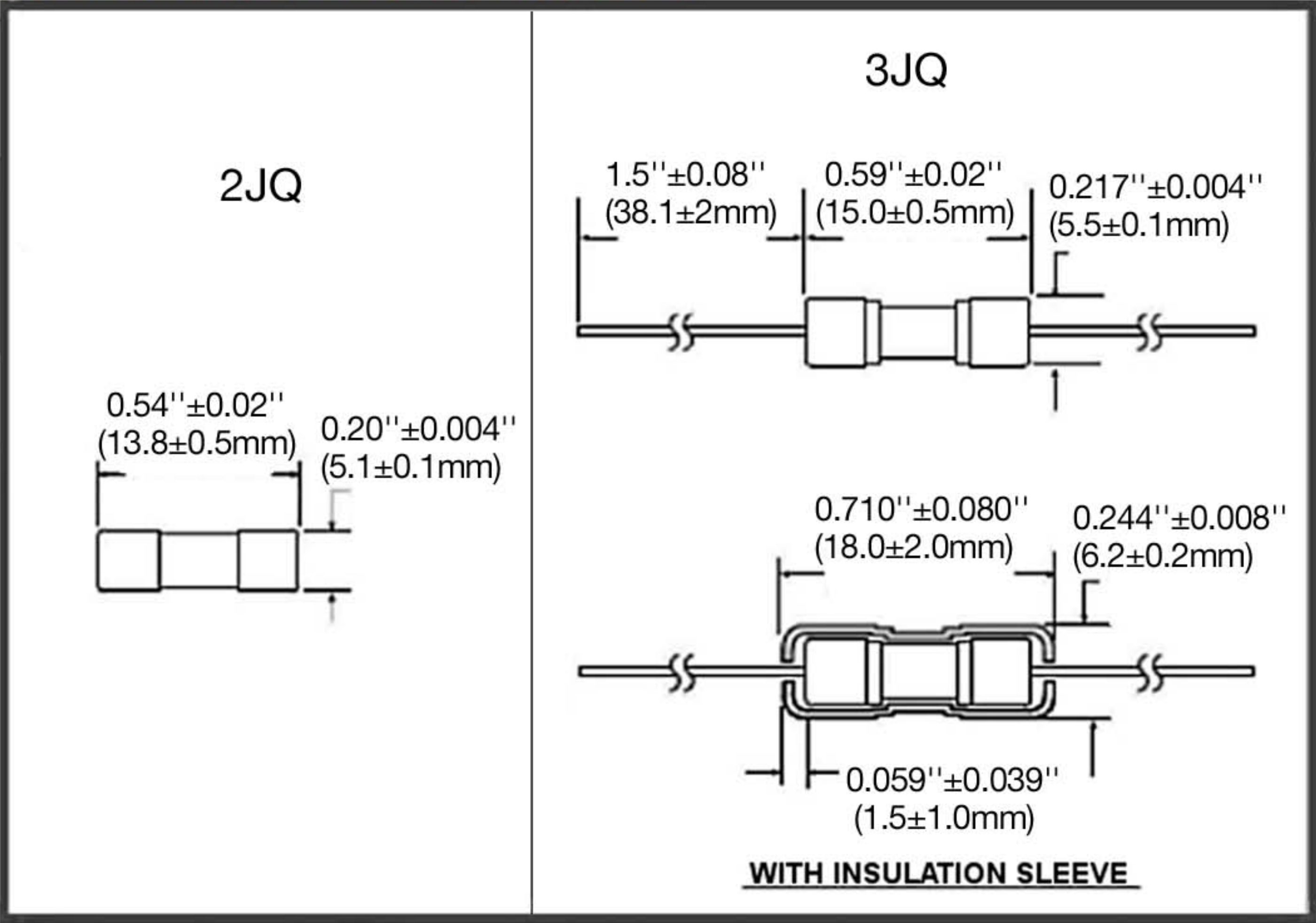
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Fuse FGNO Explanation

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



*Diameter lead 0.032" for all ratings

Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk(bag)	N/A	2000	01	N/A
Bulk (Pigtail Type)	N/A	1000	11	N/A
Bulk (Pigtail Type) with Insulation Sleeve	N/A	1000	41	N/A
Tape & Reel, 10mm Pitch	EIA-296-F	1500	12	53
Tape & Reel with Insulation Sleeve, 10mm Pitch	EIA-296-F	1500	42	53

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Ordering Information

0657 R XXXX - X X

FUSE TYPE _____

0657

R = RoHS Compliant _____

AMPERE RATING _____

Refer to fuse FGNO explanation table

MECHANICAL CODE _____

0 = 2JQ, Cartridge

1 = 3JQ, Pigtail

4 = 3JQ with VW Sleeve

PACKAGING CODE _____

1 = 2JQ Cartridge, 2K / Box

1 = 3JQ Pigtail, Bulk 1K / Box

2 = 3JQ Pigtail, T&R, 1500 / Reel



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