

# Type 0697W

## Time Lag Radial Lead Micro Fuse Series

HF (Pb) 0697W Series

RoHS 6 Compliant

### Description

Sub-miniature, time lag type, 350VAC, 72VDC rated fuses designed, approved and complied with IEC 60127-3, standard sheet 4.

### Features

- Time lag (350 VAC, 72 VDC)
- Meet IEC standard 60127-3, sheet 4
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS 6 compliant
- Halogen Free
- Leadfree



### Applications

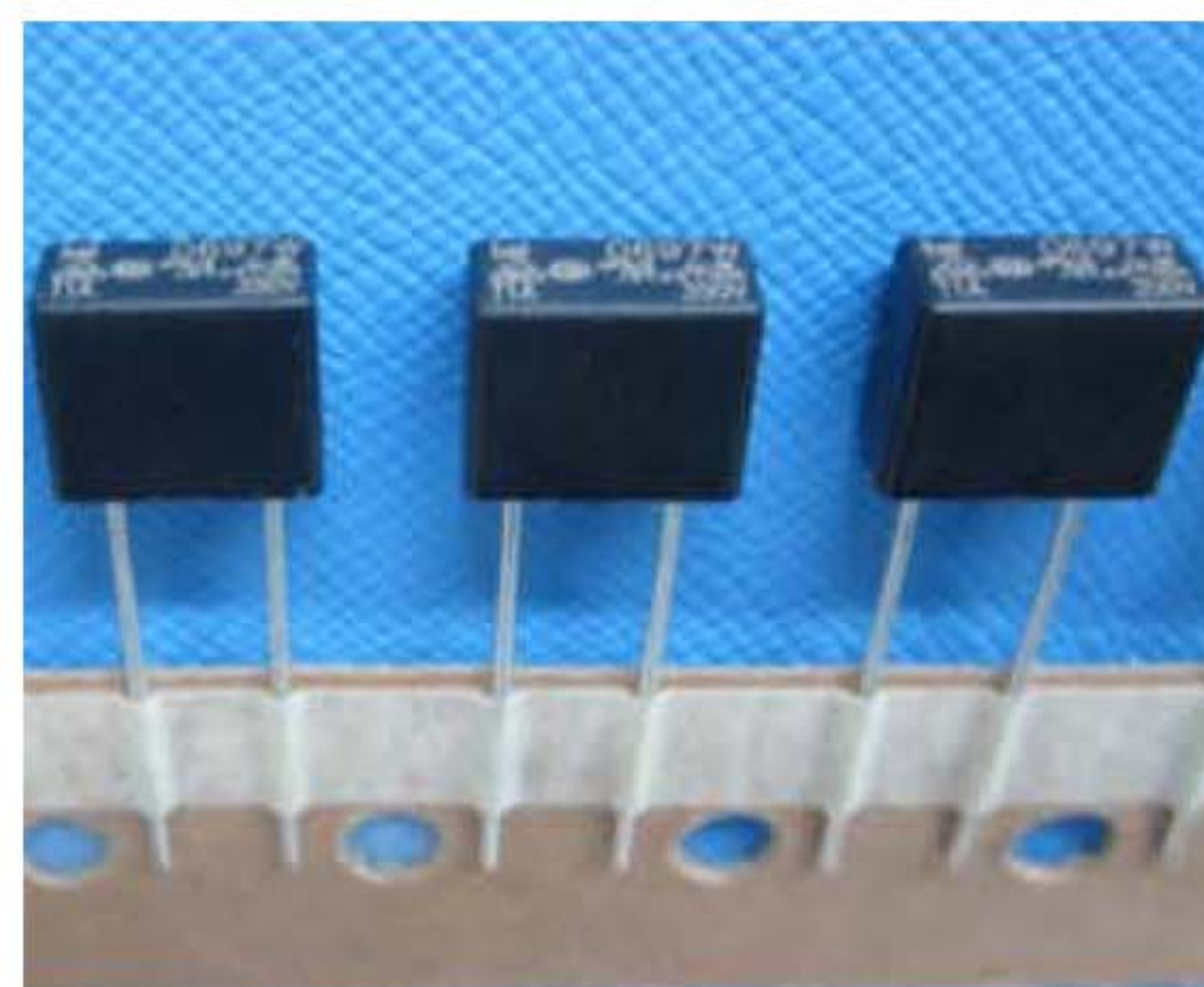
Provide individual protection for components or internal circuits.

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

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

### Physical Specifications


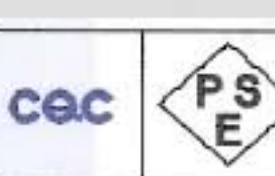


Materials	Base and Cover : Black thermoplastic, UL 94-V0
	Pins : 100% Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "0697W", "Current Rating", "350V" & " Appropriate Safety Logos "
	On Label :
	"bel", "0697W", "Current Rating", "Voltage Rating", "Interrupting Rating", " Appropriate Safety Logos "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



### Electrical Characteristics (IEC-127-3 STANDARD SHEET 4)

Rated Current	1.5In		2.1In		2.75In		4In		10In	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1A to 6.3A inclusive	1 hour	2 min.	400 ms	10 sec	150 ms	3 sec	20 ms	150 ms		

### Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	VOLTAGE RATING (V)	AMPERE RANGE / VOLT @ I.R. ABILITY*
	40039412	1A - 6.3A / 350V ac 72V dc	1A - 1.6A / 350V ac @ 50A 2A - 6.3A / 350V ac @ 65A 1A - 6.3A / 250V ac @ 65A 1A - 6.3A / 72V dc @ 100A
	PSE14020757 PSE14020758		1A - 2A / 350V ac @ 50A 2.5A - 6.3A / 350V ac @ 100A 1A - 6.3A / 72V dc @ 100A
	E20624		1A - 2A / 350V ac @ 65A 2.5A - 6.3A / 350V ac @ 100A 1A - 1.6A / 72V dc @ 65A 2A - 6.3A / 72V dc @ 100A
	CQC14012105367		1A - 2A / 350V ac @ 50A 2.5A - 6.3A / 350V ac @ 100A 1A - 6.3A / 72V dc @ 100A

\* 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 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 and Interrupting Ratings	Melting I <sup>2</sup> T <10 mSec (A <sup>2</sup> Sec)	Melting I <sup>2</sup> T @10 In (A <sup>2</sup> Sec)	Maximum Power Dissipation (W)	Agency Approvals			
											
0697W1000-XX	1A	0.082	0.115	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	6.6	9.2	0.44	Y	Y	Y	Y
0697W1250-XX	1.25A	0.064	0.110		10.5	12.0	0.56	Y	Y	Y	Y
0697W1600-XX	1.6A	0.044	0.100		16	18	0.60	Y	Y	Y	Y
0697W2000-XX	2A	0.032	0.090		26	30	0.63	Y	Y	Y	Y
0697W2500-XX	2.5A	0.025	0.087		45	51	0.70	Y	Y	Y	Y
0697W3150-XX	3.15A	0.018	0.083		66	75	0.88	Y	Y	Y	Y
0697W4000-XX	4A	0.014	0.080		101	118	0.92	Y	Y	Y	Y
0697W5000-XX	5A	0.009	0.075		111	117	0.70	Y	Y	Y	Y
0697W6300-XX	6.3A	0.007	0.075		104	115	0.98	Y	Y	Y	Y

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

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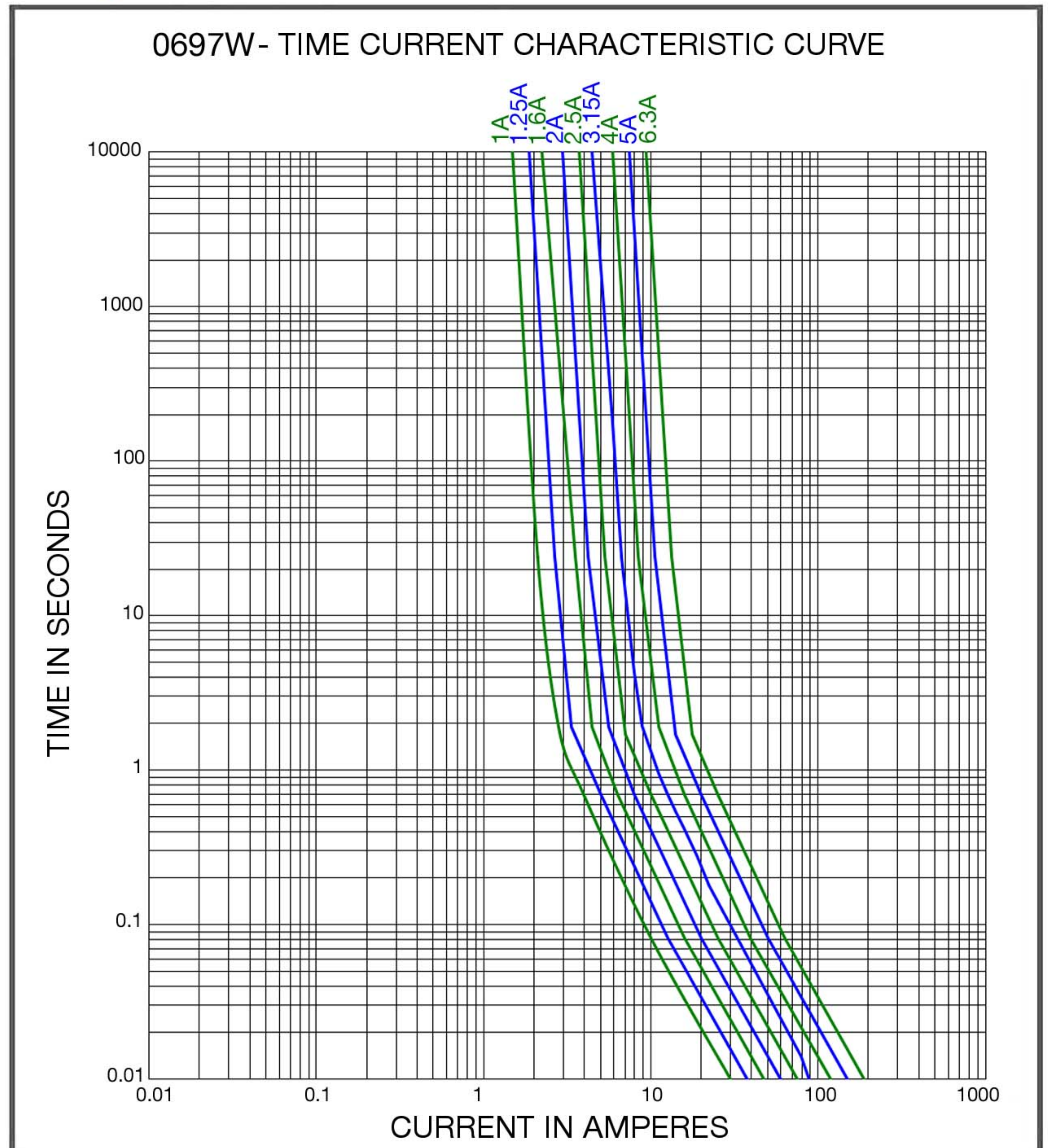
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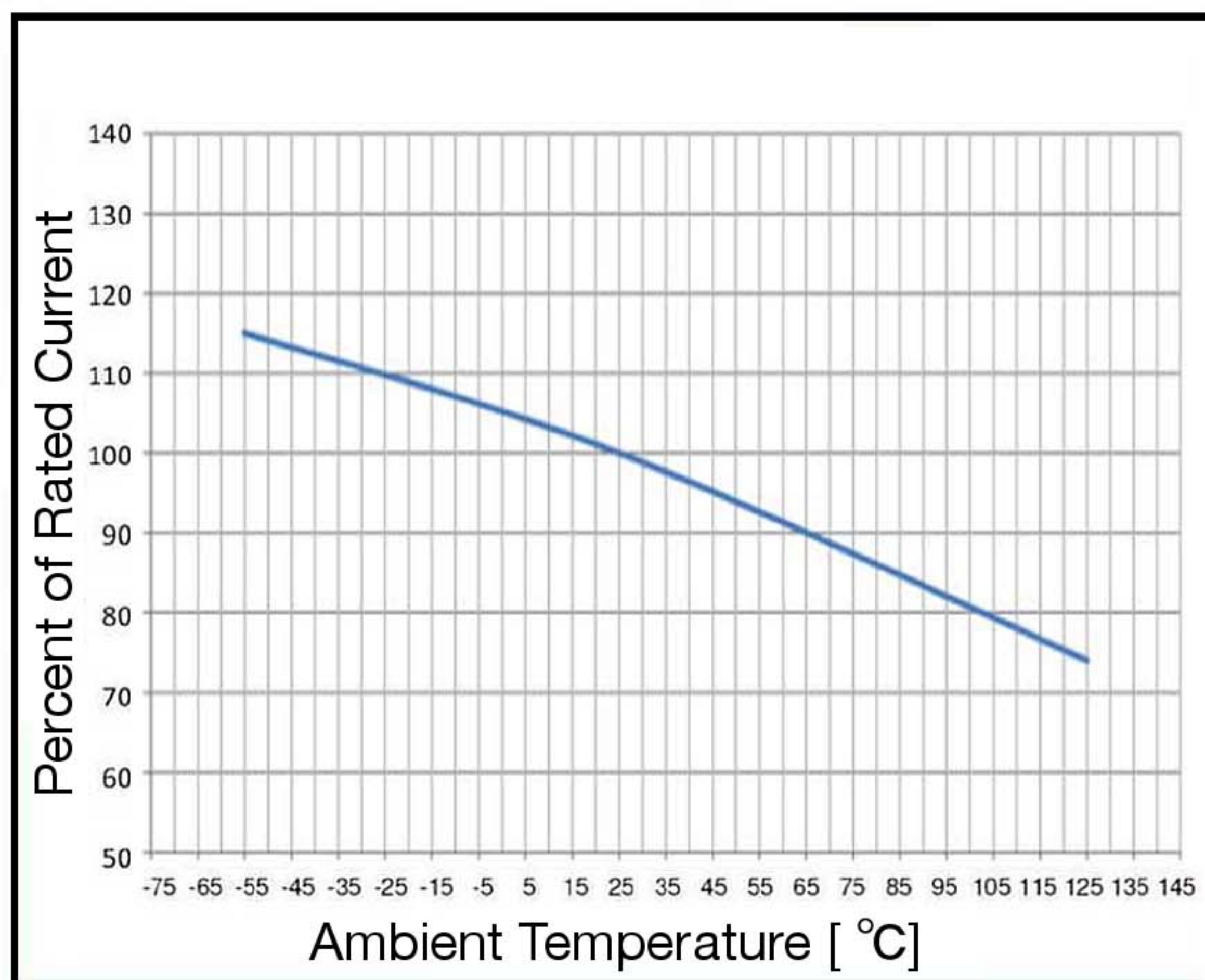
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### Average Time Current Curve

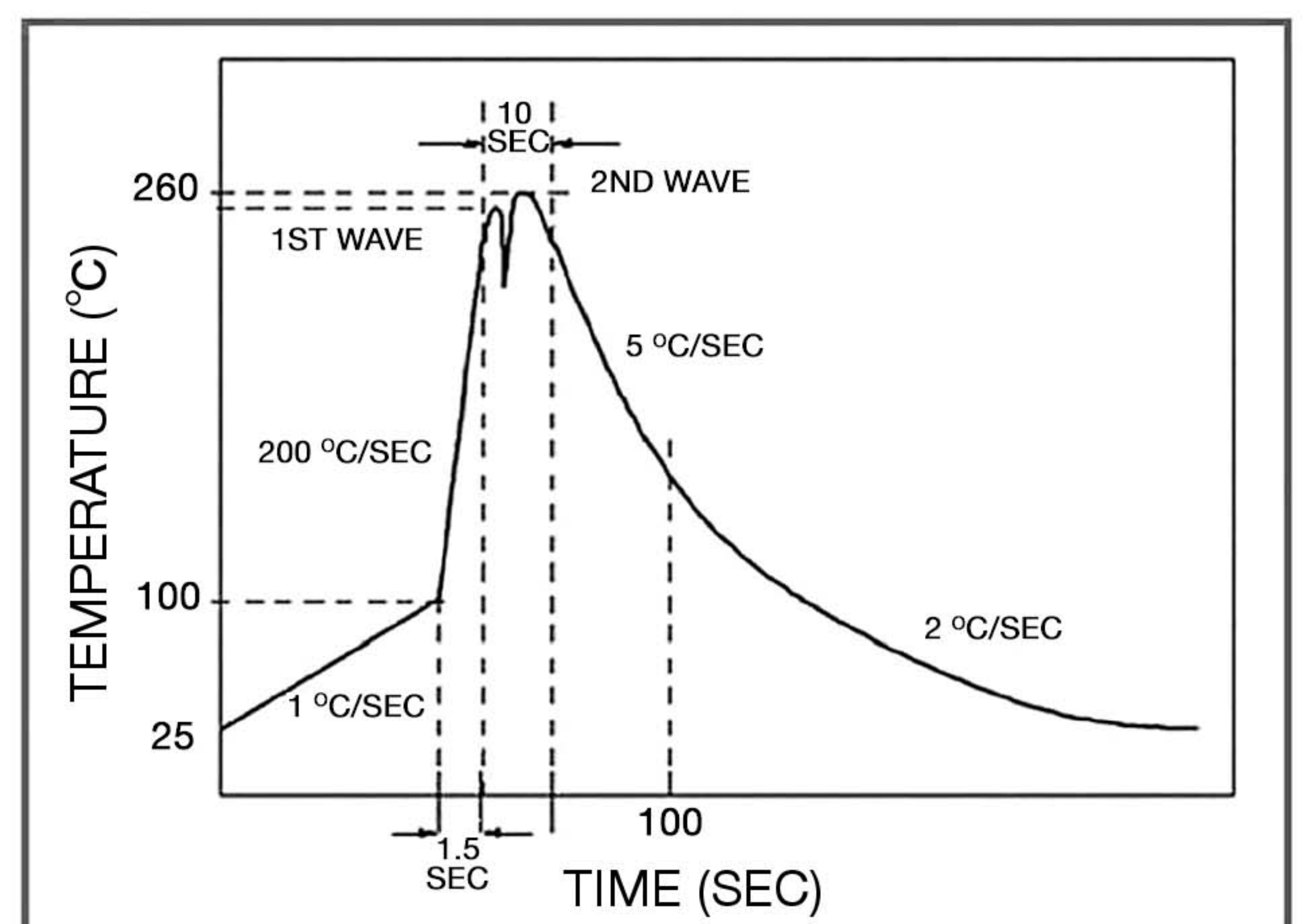


### Temperature Derating Curve



### 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 T <sub>p</sub>	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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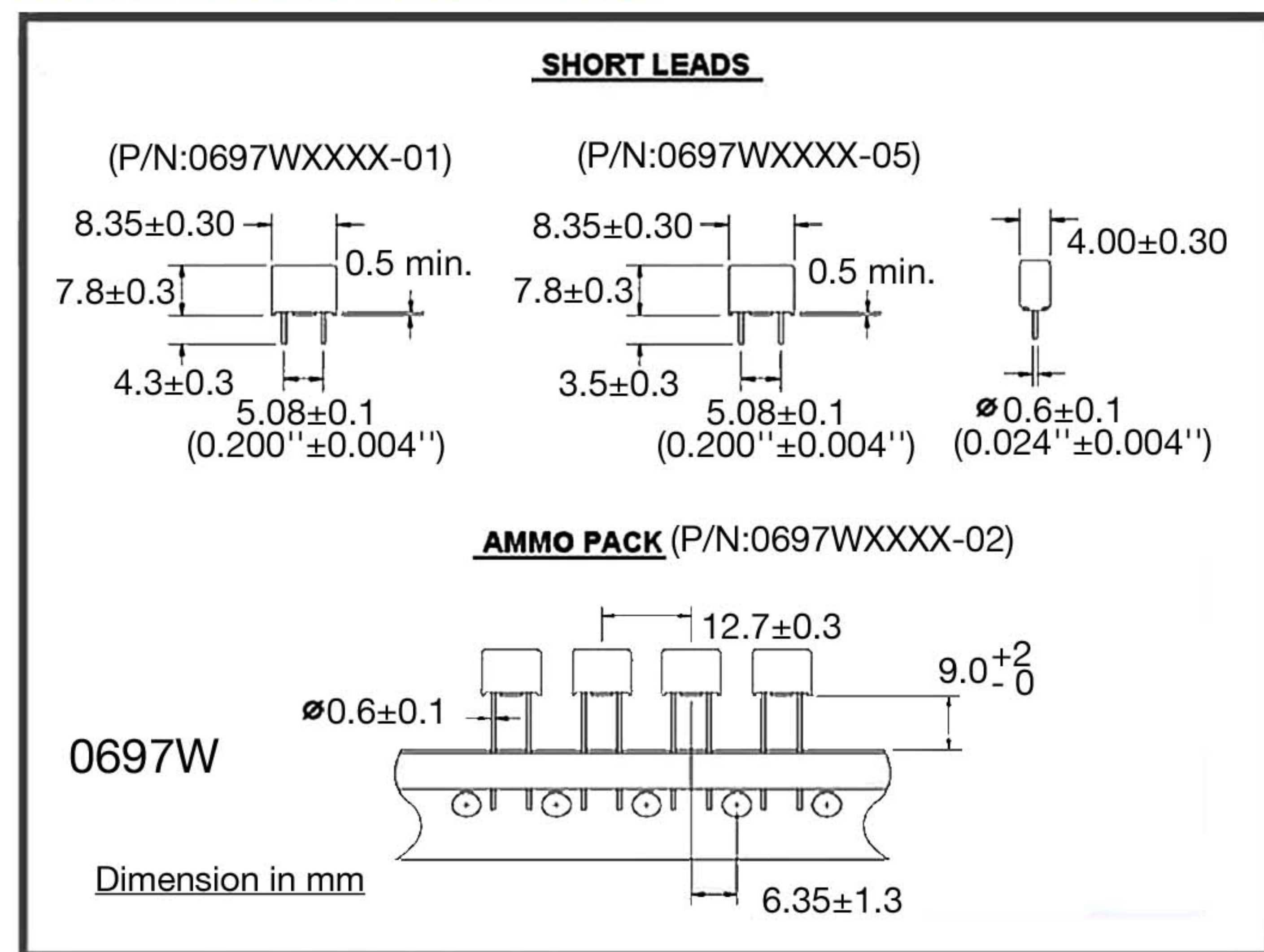
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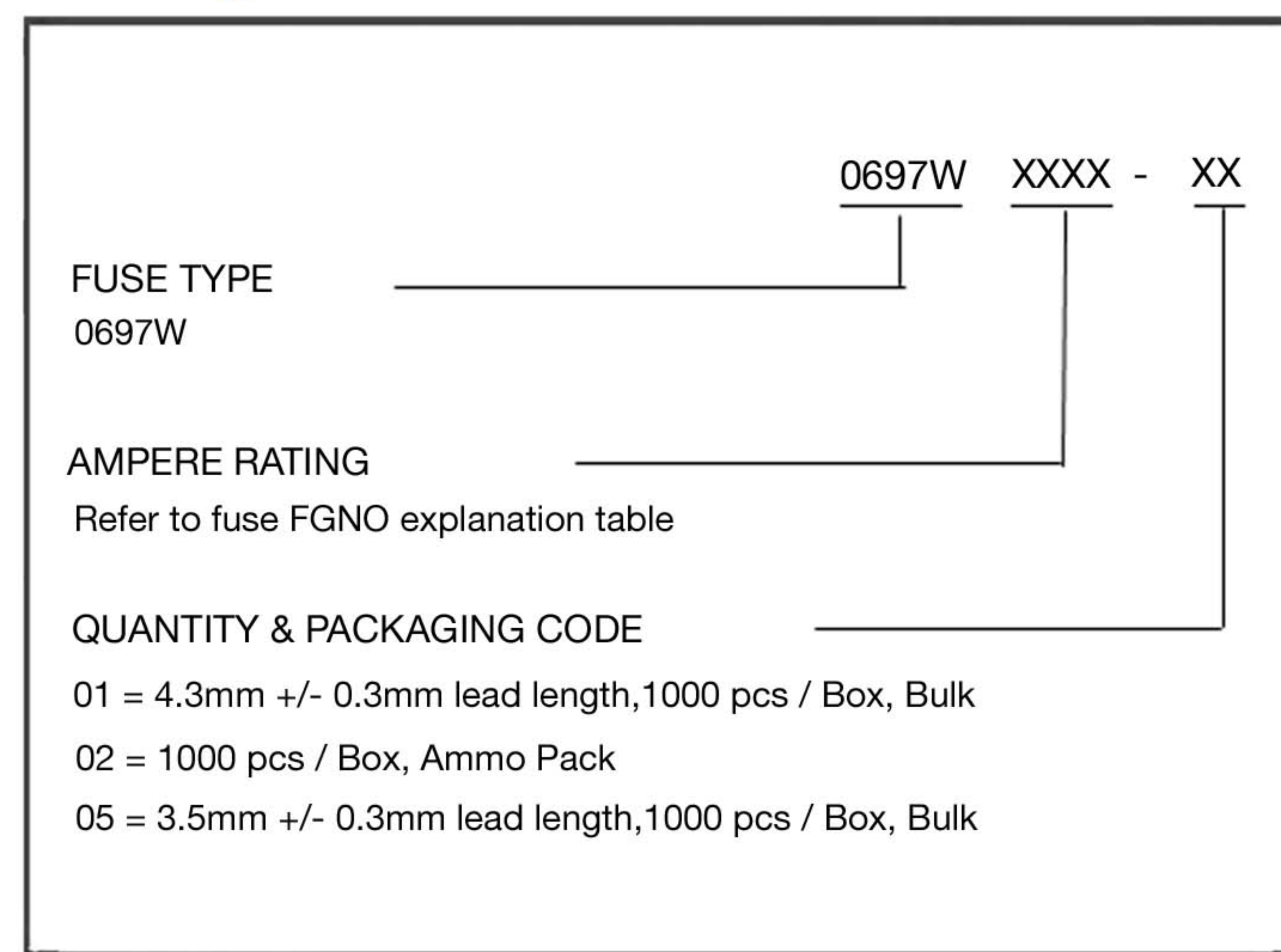
### Fuse FGNO Explanation 06XX X [XXXX] X XX, [XXXX]=Ampere Rating

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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