

Type 0657P

Quick Acting Fuse Series

HF  0657P Series, 5x15mm Glass Tube Quick Acting Fuse

RoHS 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
- 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 = 



UK CA  US CE


Physical Specifications

Materials	Body : Glass
	Cap : Nickel Plated Brass Caps
	Leads : Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "0657P", "Current Rating", "Voltage Rating",
	"Appropriate Safety Logos",
	On Label :
	"bel", "0657P", "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	Ampere Rating/ Voltage Rating	Ampere Range / Volt @ I.R. ability*
	E20624	2A-5A/350V AC	2A-5A/350V AC@100A /140V DC@150A
*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	Melting I²T <10 mSec (A² Sec)	Melting I²T @10 In (A² Sec)	Maximum Power Dissipation (W)	Agency Approvals
								
0657P2000-XX	2A	0.041	0.140	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	3.6	4.0	0.26	Y
0657P3000-XX	3A	0.027	0.135		9.2	9.0	0.38	Y
0657P4000-XX	4A	0.019	0.128		16.0	15.0	0.48	Y
0657P5000-XX	5A	0.015	0.122		27.2	25.0	0.64	Y

Consult manufacturer for other ratings

XX - Packaging code (see "ordering information")

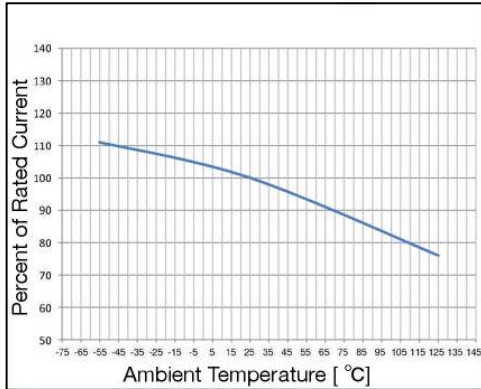


Specifications subject to change without notice

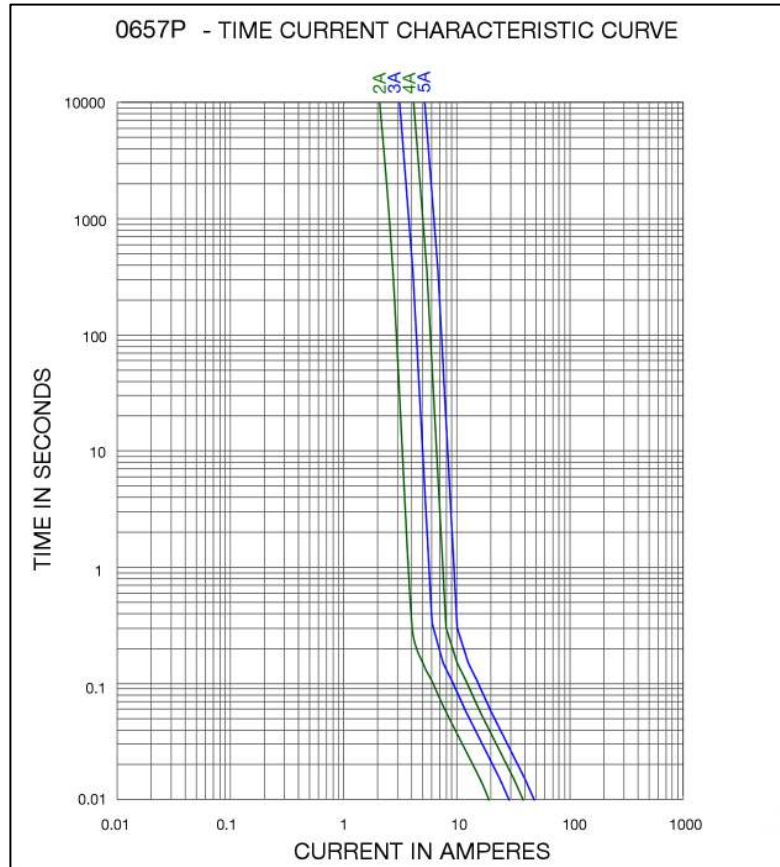
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206 Van Vorst Street
Jersey City, NJ 07302 USA

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Bel.US.CS@belf.com
belfuse.com/circuit-protection

Temperature Derating Curve

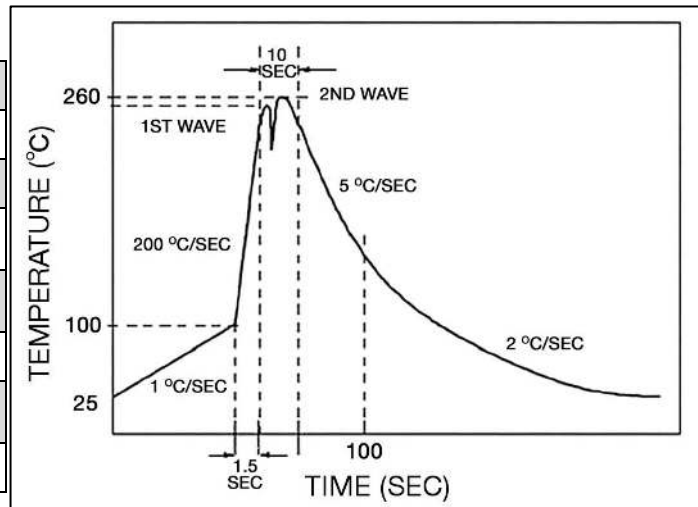


Average Time Current Curve



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.



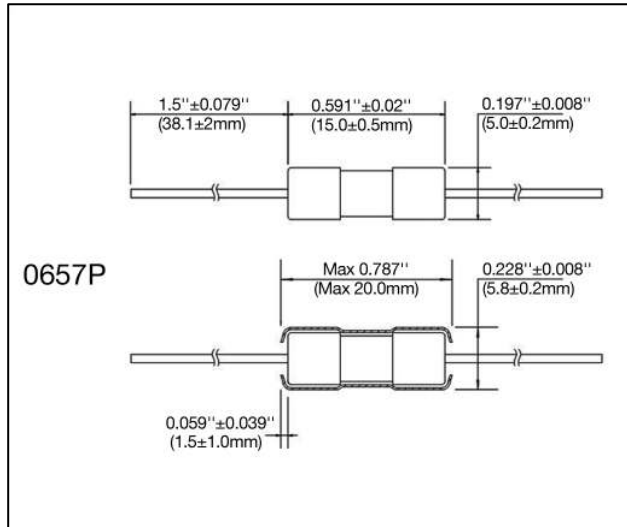
Fuse FGNO Explanation

0657 P [XXXX] -XX

0657P=0657P; [XXXX]=Ampere Rating; XX=See Ordering Information as below

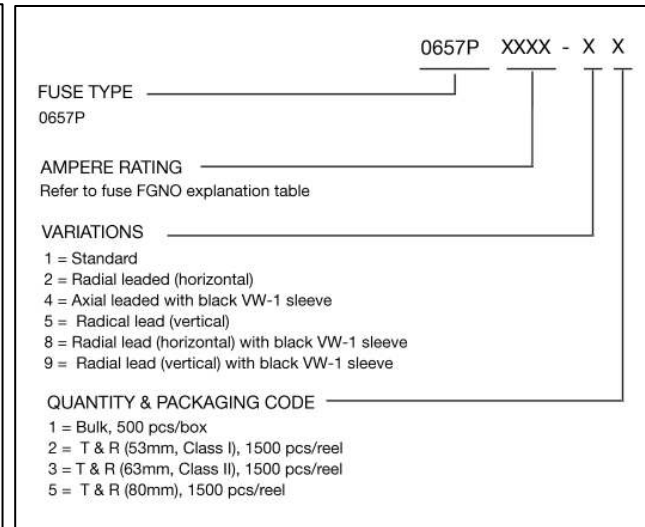
Decimal	Amps	Bel FGNO[XXXX]
2.0	2	2000
3.0	3	3000
4.0	4	4000
5.0	5	5000

Mechanical Dimensions



*Diameter lead 0.032"±0.002" for all ratings

Ordering Information



Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk (Pigtail Type)	N/A	500	11	N/A
Bulk (Pigtail Type) with Insulation Sleeve	N/A	500	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