

Type 0657P

Quick Acting Fuse Series

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

RoHS 2 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 2 compliant
- 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 : 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 | Voltage Rating (V) | 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")

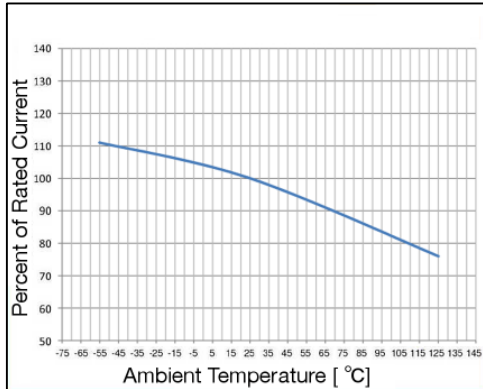


Specifications subject to change without notice

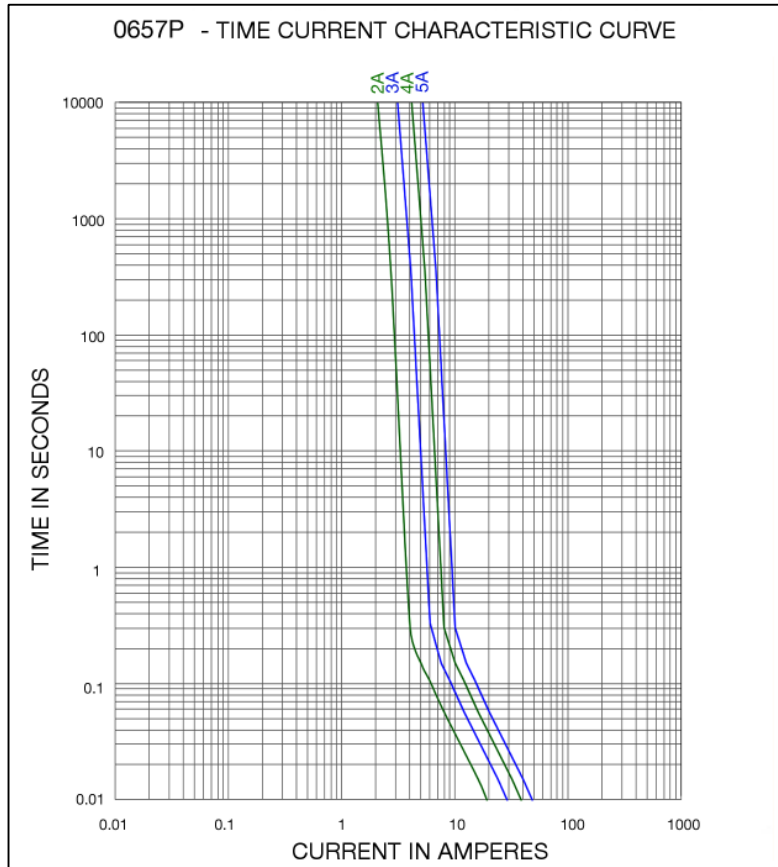
Bel Fuse Inc.
206 Van Vorst Street
Jersey City, NJ 07302 USA

+1 201.432.0463
Bel.US.CS@belf.com
belfuse.com/circuit-protection

Temperature Derating Curve

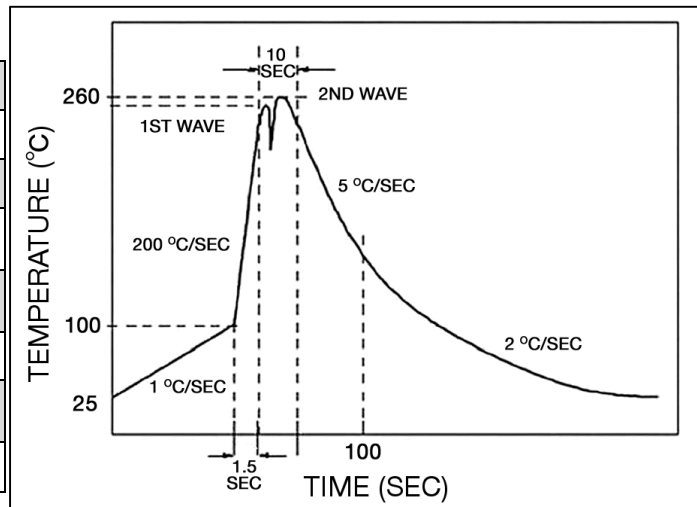


Average Time Current Curve



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



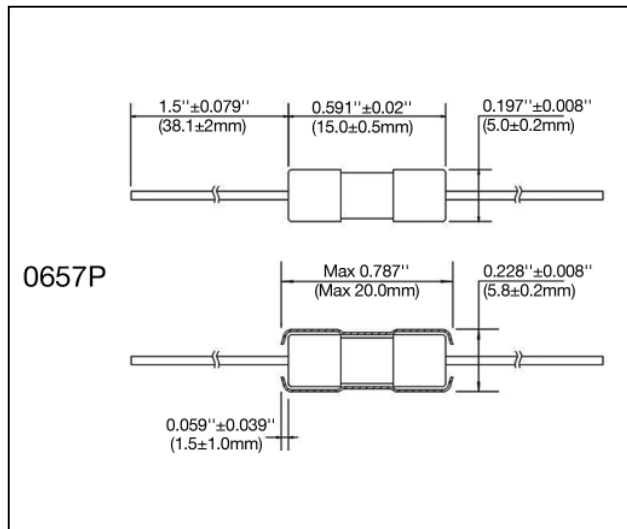
Fuse FGNO Explanation

0657 P [XXXX] -XX

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

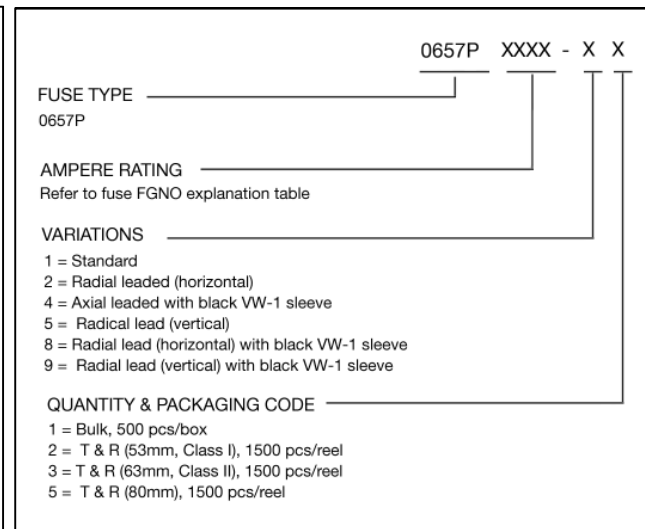
| Decimal | Amps | Bel FGNO[XXXX] |
|---------|------|----------------|
| 2.0 | 2 | 2000 |
| 3.0 | 3 | 3000 |
| 4.0 | 4 | 4000 |
| 5.0 | 5 | 5000 |

Mechanical Dimensions



*Diameter lead 0.032" 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 |

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9