

Type 0657P

Quick Acting Fuse Series

HF Pb 0657P 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

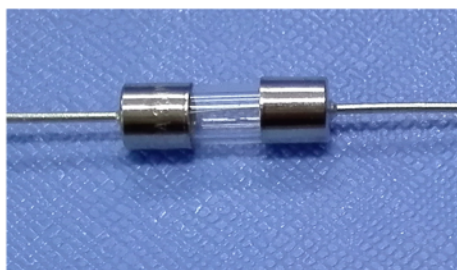
Provide individual protection for components or internal circuits.

- 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", "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 NUMBER	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)

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

Part Number	Ampere Rating	Typical Cold Resistance (ohm)	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

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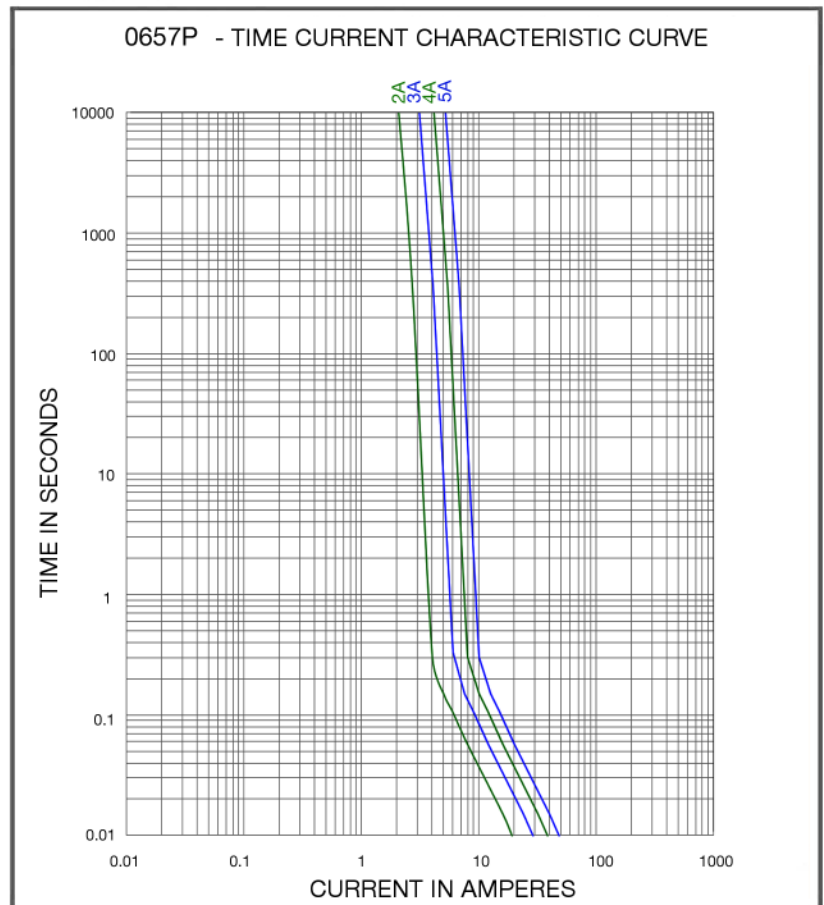
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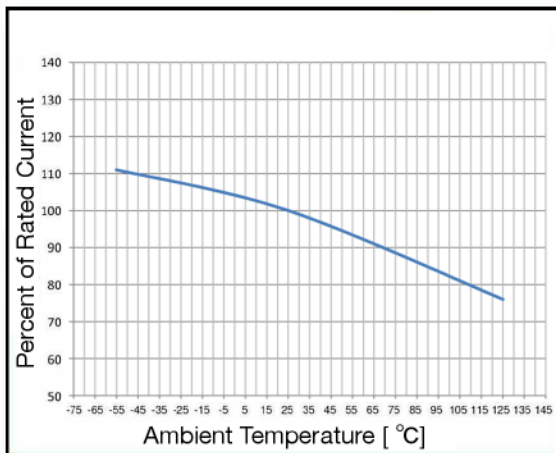
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RoHS 6 Compliant

Average Time Current Curve

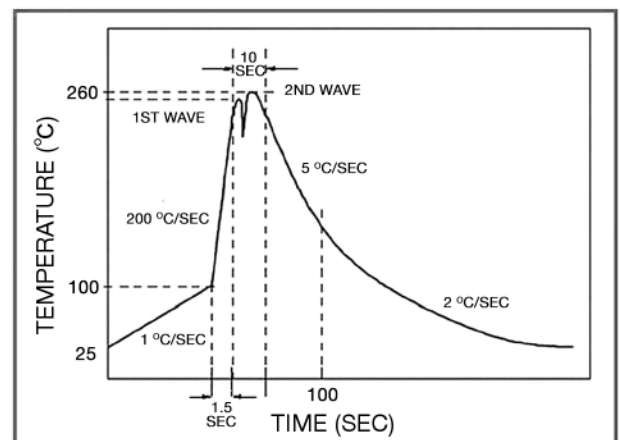


Temperature Derating Curve



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 _p	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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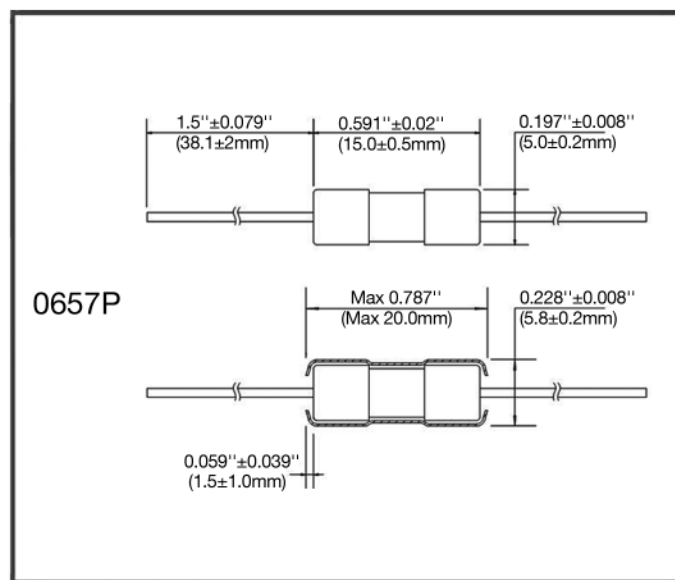
Fuse FGNO Explanation

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

0657P XXXX - X X

FUSE TYPE _____
0657P

AMPERE RATING _____
Refer to fuse FGNO explanation table

VARIATIONS _____
1 = Standard
2 = Radial leaded (horizontal)
4 = Axial leaded with black VW-1 sleeve
5 = Radial lead (vertical)
8 = Radial lead (horizontal) with black VW-1 sleeve
9 = Radial lead (vertical) with black VW-1 sleeve

QUANTITY & PACKAGING CODE _____
1 = Bulk, 500 pcs/box
2 = T & R (53mm, Class I), 1500 pcs/reel
3 = T & R (63mm, Class II), 1500 pcs/reel
5 = T & R (80mm), 1500 pcs/reel

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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