

Type 0657P

Quick Acting Fuse Series

HF Pb 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 cULus 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)			

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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 (ohms)	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
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

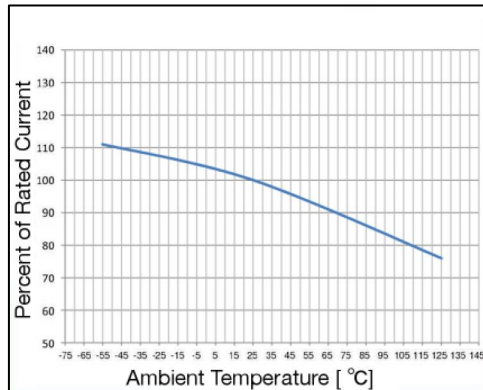
Consult manufacturer for other ratings

XX - Packaging code (see "ordering information")

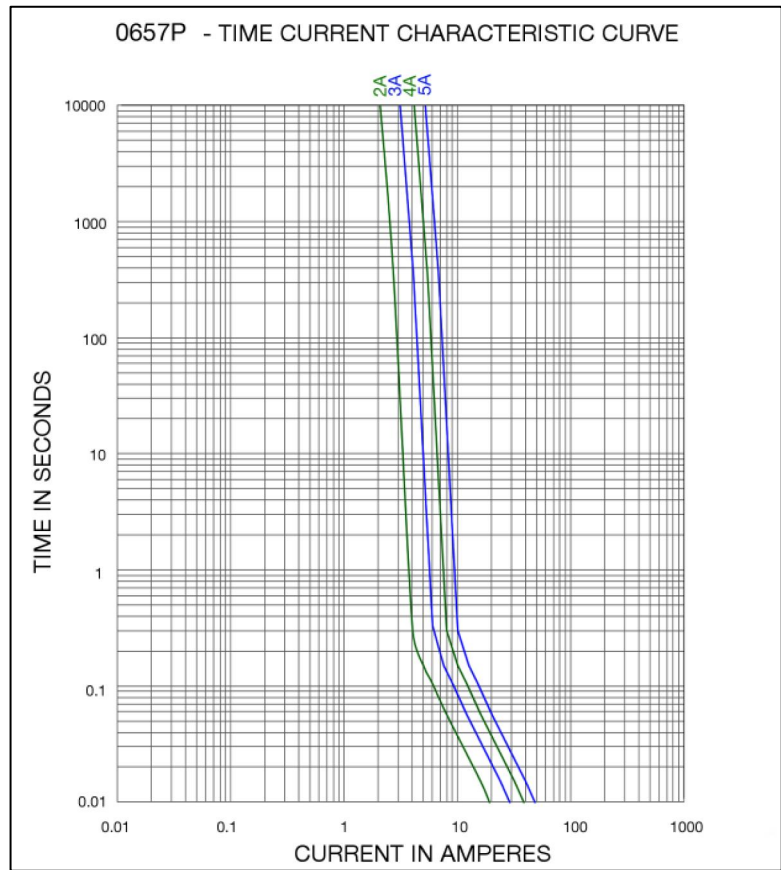
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Temperature Derating Curve

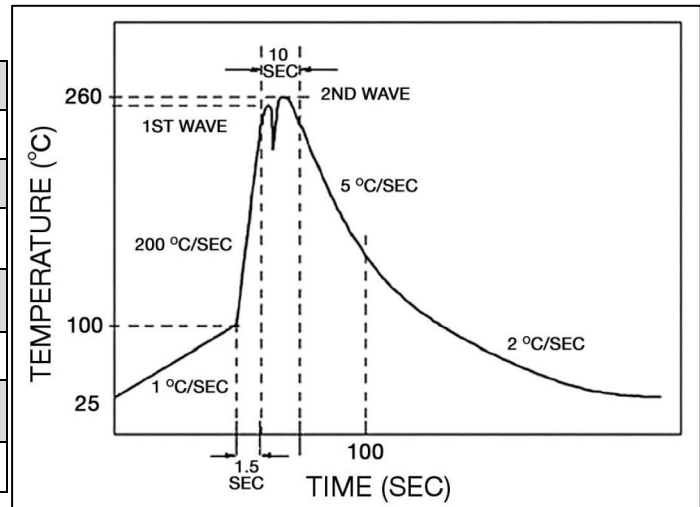


Average Time Current Curve



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.



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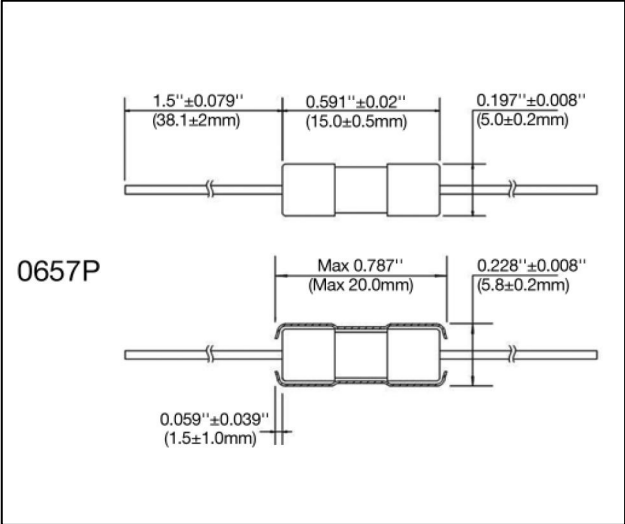
Fuse FGNO Explanation

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



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

*Diameter lead 0.032"±0.002" for all ratings

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