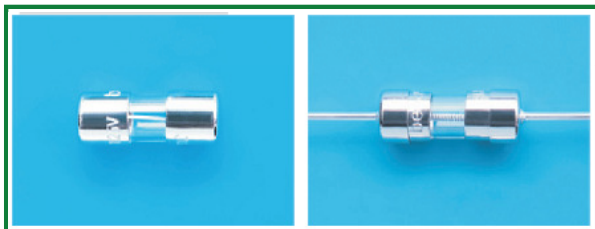


## Type 2JQ / 3JQ Quick Acting Fuse Series

5 x 15mm Glass Tube  
RoHS 6 Compliant

HF Pb 2JQ / 3JQ Series, 5 x 15mm Quick Acting Fuse



### Description

5x15 mm Quick Acting, glass tube body cartridge fuse designed, approved and complied with UL and CSA standard 248-14.

### 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   |

### Features

- Meet UL and CSA standard 248-14
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS6 compliant
- Halogen Free
- Leadfree

### Applications

Provide individual protection for components or internal circuits.

- Power Supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE =

HALOGEN FREE =

### Safety Agency Approvals

| SAFETY AGENCY | SAFETY AGENCY CERTIFICATE NUMBER           | AMPERE RANGE / VOLT @ I.R.ABILITY                        |
|---------------|--------------------------------------------|----------------------------------------------------------|
|               | E20624                                     | 100mA - 7A / 350V AC @100A<br>100mA - 7A / 140V DC @150A |
|               | LR39772                                    | 100mA - 7A / 350V AC @100A                               |
|               | JET 1037-31003-1010<br>JET 1037-31003-1011 | 1A - 5A / 125V AC @500A                                  |
|               | JET 1037-31003-1007                        | >5A - 15A / 125V AC @300A                                |
|               |                                            | 100mA - 7A / 350V AC @100A<br>100mA - 7A / 140V DC @150A |

Specifications Subject to change without notice.

# Type 2JQ / 3JQ

## Quick Acting Fuse Series

5 x 15 mm Glass Tube  
RoHS 6 Compliant



# bel

JQ May 2012D

### Electrical Specifications

| Catalog Number | Ampere Rating | Typical Cold Resistance (ohm) | Volt-drop @100% In (Volt) Max. | Voltage Rating (V) | Interrupting Rating        | Melting I <sup>2</sup> T <10 m Sec (A <sup>2</sup> Sec) | Melting I <sup>2</sup> T @ 10 In (A <sup>2</sup> Sec) | Maximum Power Dissipation (W) | Agency Approvals |   |   |   |
|----------------|---------------|-------------------------------|--------------------------------|--------------------|----------------------------|---------------------------------------------------------|-------------------------------------------------------|-------------------------------|------------------|---|---|---|
|                |               |                               |                                |                    |                            |                                                         |                                                       |                               |                  |   |   |   |
| JQ 100-R       | 100mA         | 6.14                          | 2.10                           | 350                | 100mA - 7A / 350V AC @100A | 0.00097                                                 | 0.0010                                                | 0.029                         | Y                | Y |   | Y |
| JQ 125-R       | 125mA         | 4.29                          | 2.05                           | 350                |                            | 0.0019                                                  | 0.0020                                                | 0.035                         | Y                | Y |   | Y |
| JQ 150-R       | 150mA         | 3.35                          | 1.90                           | 350                |                            | 0.004                                                   | 0.004                                                 | 0.041                         | Y                | Y |   | Y |
| JQ 200-R       | 200mA         | 2.01                          | 1.70                           | 350                |                            | 0.007                                                   | 0.008                                                 | 0.048                         | Y                | Y |   | Y |
| JQ 250-R       | 250mA         | 1.54                          | 1.62                           | 350                |                            | 0.014                                                   | 0.015                                                 | 0.057                         | Y                | Y |   | Y |
| JQ 300-R       | 300mA         | 1.18                          | 1.44                           | 350                |                            | 0.026                                                   | 0.029                                                 | 0.067                         | Y                | Y |   | Y |
| JQ 350-R       | 350mA         | 0.98                          | 1.50                           | 350                |                            | 0.036                                                   | 0.040                                                 | 0.072                         | Y                | Y |   | Y |
| JQ 400-R       | 400mA         | 0.46                          | 0.60                           | 350                |                            | 0.05                                                    | 0.06                                                  | 0.079                         | Y                | Y |   | Y |
| JQ 500-R       | 500mA         | 0.33                          | 0.55                           | 350                |                            | 0.10                                                    | 0.11                                                  | 0.092                         | Y                | Y |   | Y |
| JQ 600-R       | 600mA         | 0.26                          | 0.48                           | 350                |                            | 0.14                                                    | 0.16                                                  | 0.10                          | Y                | Y |   | Y |
| JQ 750-R       | 750mA         | 0.188                         | 0.45                           | 350                | 100mA - 7A / 140V DC @150A | 0.26                                                    | 0.30                                                  | 0.12                          | Y                | Y |   | Y |
| JQ 800-R       | 800mA         | 0.170                         | 0.40                           | 350                |                            | 0.27                                                    | 0.27                                                  | 0.17                          | Y                | Y |   | Y |
| JQ 1-R         | 1A            | 0.112                         | 0.40                           | 350                |                            | 0.62                                                    | 0.65                                                  | 0.21                          | Y                | Y | Y | Y |
| JQ 1.25-R      | 1.25A         | 0.068                         | 0.17                           | 350                |                            | 0.80                                                    | 0.82                                                  | 0.26                          | Y                | Y | Y | Y |
| JQ 1.5-R       | 1.5A          | 0.056                         | 0.16                           | 350                |                            | 1.4                                                     | 1.4                                                   | 0.32                          | Y                | Y | Y | Y |
| JQ 1.6-R       | 1.6A          | 0.054                         | 0.13                           | 350                |                            | 1.8                                                     | 1.9                                                   | 0.35                          | Y                | Y | Y | Y |
| JQ 2-R         | 2A            | 0.041                         | 0.16                           | 350                |                            | 2.3                                                     | 2.5                                                   | 0.39                          | Y                | Y | Y | Y |
| JQ 2.5-R       | 2.5A          | 0.033                         | 0.15                           | 350                |                            | 4.0                                                     | 4.3                                                   | 0.48                          | Y                | Y | Y | Y |
| JQ 3-R         | 3A            | 0.027                         | 0.15                           | 350                |                            | 4.6                                                     | 5.6                                                   | 0.59                          | Y                | Y | Y | Y |
| JQ 3.5-R       | 3.5A          | 0.022                         | 0.14                           | 350                |                            | 9                                                       | 10                                                    | 0.66                          | Y                | Y | Y | Y |
| JQ 4-R         | 4A            | 0.019                         | 0.14                           | 350                |                            | 12                                                      | 13                                                    | 0.73                          | Y                | Y | Y | Y |
| JQ 5-R         | 5A            | 0.015                         | 0.13                           | 350                |                            | 20                                                      | 23                                                    | 0.9                           | Y                | Y | Y | Y |
| JQ 6-R         | 6A            | 0.012                         | 0.13                           | 350                |                            | 35                                                      | 40                                                    | 1.1                           | Y                | Y | Y | Y |
| JQ 7-R         | 7A            | 0.010                         | 0.12                           | 350                |                            | 46                                                      | 53                                                    | 1.2                           | Y                | Y | Y | Y |

Consult manufacturer for other ratings

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# Type 2JQ / 3JQ Quick Acting Fuse Series

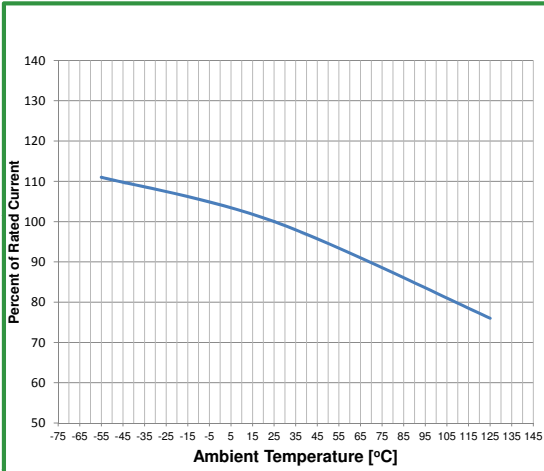
5 x 15 mm Glass Tube  
RoHS 6 Compliant



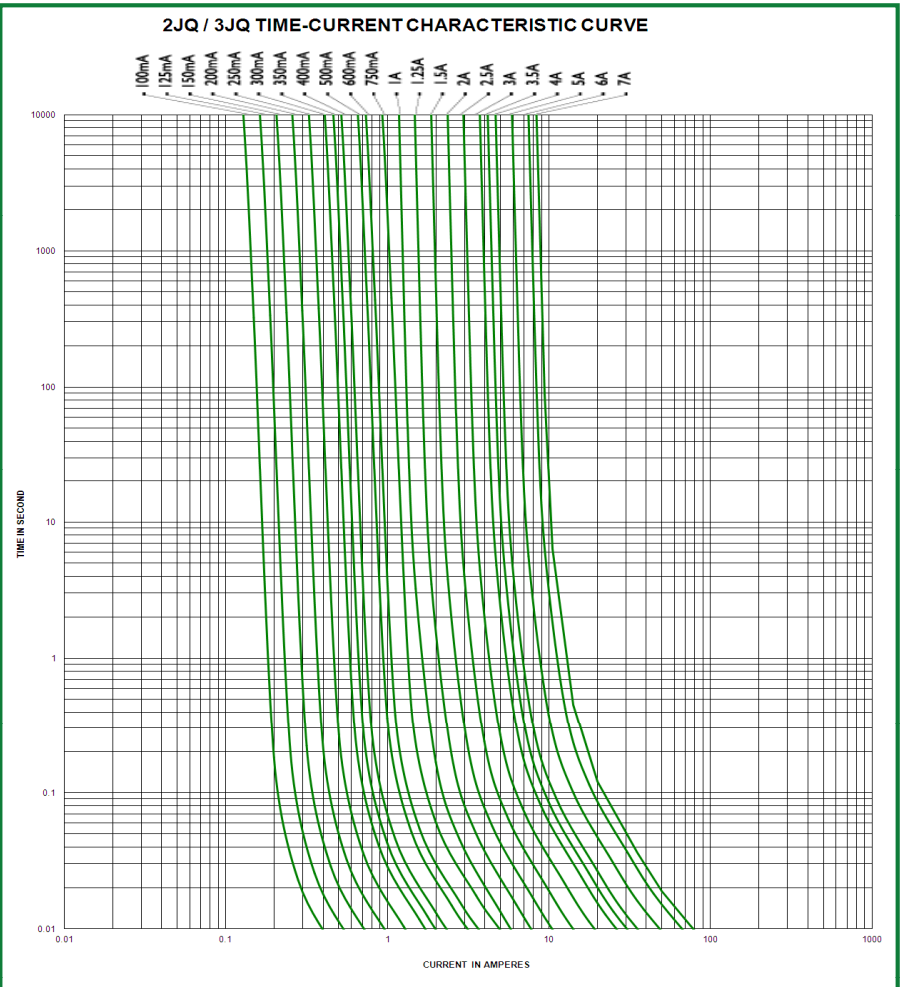
# bel

JQ May2012C

## Temperature Derating Curve

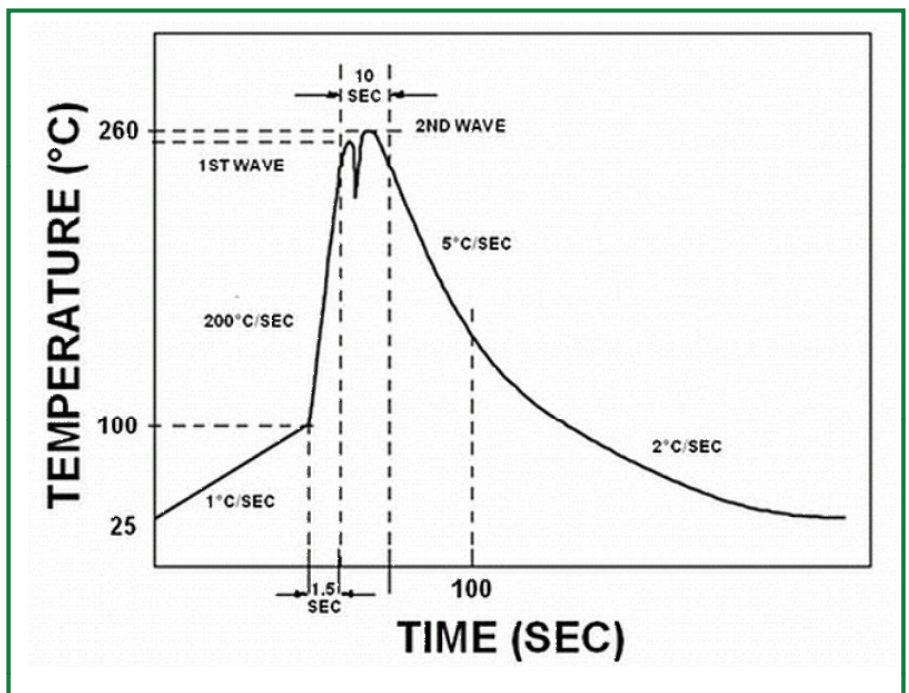


## Average Time Current Curve



## 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<br>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.                             |



# Type 2JQ / 3JQ Quick Acting Fuse Series

5 x 15 mm Glass Tube  
RoHS 6 Compliant



# bel

JQ May2012D

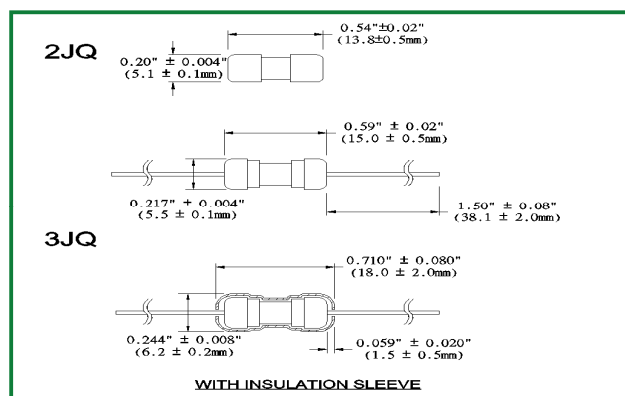
## Physical Specifications

|           |                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials | Body : Glass                                                                                                                                            |
|           | Cap : Nickel Plated Brass Caps                                                                                                                          |
|           | Leads: Matte Tin Plated Copper                                                                                                                          |
| Marking   | On Fuse:                                                                                                                                                |
|           | "bel" , "JQ" , " Current Rating", "Voltage Rating",                                                                                                     |
|           | "Appropriate Safety Logos", " ✓ "(RoHS 6 compliant)                                                                                                     |
|           | On label:                                                                                                                                               |
|           | "bel" , "2JQ", or "3JQ", "Current Rating", "Voltage Rating", "Interrupting Rating",<br>"Appropriate Safety Logos" and "M" , "E" (China RoHS compliant). |

## Environmental Specifications

|                           |                                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------------------------|
| Shock Resistance          | MIL-STD-202G, Method 213B, Test Condition I<br>(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<br>(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<br>(-65 °C to +125 °C).                                 |
| Operating Temperature     | -55 °C to +125 °C                                                                                   |
| Terminal Strength         | IEC-68-2-21                                                                                         |

## Mechanical Dimensions



\* Diameter lead 0.032" for all ratings

## Ordering Information

|                                      |                                                                                                                                             |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FUSE TYPE</b>                     | 0657                                                                                                                                        |
| <b>R</b>                             | R = RoHS Compliant                                                                                                                          |
| <b>AMPERE RATING</b>                 | Refer to fuse FGNO explanation table                                                                                                        |
| <b>PIGTAIL CODE</b>                  | 0 = No pigtail ( 2JQ)<br>1 = Standard (axial leaded)<br>4 = Axial leaded with with insulation sleeve                                        |
| <b>QUANTITY &amp; PACKAGING CODE</b> | 1 = 200 pcs / Bulk bag, 2K / Box ,Cartridge Type Fuse<br>= 500 pcs/ Bulk bag / box, Pigtail Type Fuse<br>2 = 1500 pcs / Reel, Tape and Reel |

Specifications subject to change without notice

## Packaging

| Packaging Option                                | Packaging Specification | Quantity | Packaging Code | Inside Tape Spacing |
|-------------------------------------------------|-------------------------|----------|----------------|---------------------|
| Bulk (bag)                                      | N/A                     | 200      | 01             | N/A                 |
| Bulk (Pigtail Type)                             | N/A                     | 500      | 11             | N/A                 |
| Bulk (Pigtail Type) with Insulation Sleeve      | N/A                     | 500      | 41             | N/A                 |
| Tape & Reel, 10 mm Pitch                        | EIA-296-F               | 1500     | 12             | 53                  |
| Tape & Reel with Insulation Sleeve, 10 mm Pitch | EIA-296-F               | 1500     | 42             | 53                  |

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