

Type 2JS / 3JS

Time-lag Fuse Series

HF Pb 2JS/3JS Series, 5x15mm Glass Tube Time-lag Fuse

RoHS Compliant

Description

5x15mm Time-lag, 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 = 






Physical Specifications

| | |
|-----------|--|
| Materials | Body : Glass |
| | Cap : Nickel Plated Brass Caps |
| | Leads : Matte Tin Plated Copper |
| Marking | On Fuse : |
| | "bel", "JS", "Current Rating", " Voltage Rating", |
| | "Appropriate Safety Logos", " ✓ " (RoHS compliant) |
| | On Label : |
| | "bel", "2JS"or"3JS", "Current Rating", "Voltage Rating", "Interrupting Rating", |
| | "Appropriate Safety Logos" and "  ", "  "(China RoHS compliant). |

Electrical Characteristics (UL/CSA STD.248-14) Safety Agency Approvals




| Testing Current | Blow Time | |
|-----------------|-----------|----------|
| | Minimum | Maximum |
| 100% | 4 hrs. | N/A |
| 135% | N/A | 1 hr. |
| 200% | 3 sec | 20 sec |
| 500% | 100 msec | 1.5 sec |
| 1000% | 30 msec | 300 msec |

| Safety Agency | Safety Agency Certificate | Ampere Rating/ Voltage Rating | Ampere Range / Volt @ I.R. ability* |
|---|--|-------------------------------|--|
|  | E20624 | 500mA-7A /350V AC | 500mA-7A/350V AC @100A 500mA-7A/125V AC@10.000A 500mA-7A/140V DC @150A |
|  | LR39772 | | 500mA-7A/125V AC @10.000A |
|  | JET1037-31003-1010 JET1037-31003-1011 JET1037-31003-1007 | | 1A-5A/125V AC @500A >5A-15A/125V AC@300A |
| *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

| Catalog 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 | | |
|----------------|---------------|--------------------------------|-------------------------------|---|--|--|-------------------------------|---|---|---|
| | | | | | | | |  |  |  |
| JS 500-R | 500mA | 0.62 | 0.53 | See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings | 1.6 | 2.0 | 0.47 | Y | Y | |
| JS 600-R | 600mA | 0.44 | 0.53 | | 2.2 | 2.3 | 0.49 | Y | Y | |
| JS 700-R | 700mA | 0.32 | 0.42 | | 3.0 | 4.0 | 0.54 | Y | Y | |
| JS 750-R | 750mA | 0.28 | 0.38 | | 3.0 | 4.0 | 0.55 | Y | Y | |
| JS 800-R | 800mA | 0.23 | 0.37 | | 5.0 | 7.0 | 0.60 | Y | Y | |
| JS 1-R | 1A | 0.19 | 0.36 | | 5.9 | 7.8 | 0.64 | Y | Y | Y |
| JS 1.25-R | 1.25A | 0.13 | 0.30 | | 9.3 | 12 | 0.71 | Y | Y | Y |
| JS 1.5-R | 1.5A | 0.094 | 0.23 | | 15 | 19 | 0.80 | Y | Y | Y |
| JS 2-R | 2A | 0.063 | 0.22 | | 23 | 30 | 0.89 | Y | Y | Y |
| JS 2.5-R | 2.5A | 0.046 | 0.21 | | 35 | 46 | 0.99 | Y | Y | Y |
| JS 3-R | 3A | 0.037 | 0.19 | | 55 | 72 | 1.10 | Y | Y | Y |
| JS 3.5-R | 3.5A | 0.030 | 0.18 | | 69 | 91 | 1.16 | Y | Y | Y |
| JS 4-R | 4A | 0.026 | 0.18 | | 86 | 114 | 1.22 | Y | Y | Y |
| JS 5-R | 5A | 0.018 | 0.16 | | 135 | 179 | 1.36 | Y | Y | Y |
| JS 6-R | 6A | 0.015 | 0.16 | | 211 | 279 | 1.51 | Y | Y | Y |
| JS 7-R | 7A | 0.012 | 0.15 | | 263 | 350 | 1.60 | Y | Y | Y |

Consult manufacturer for other ratings

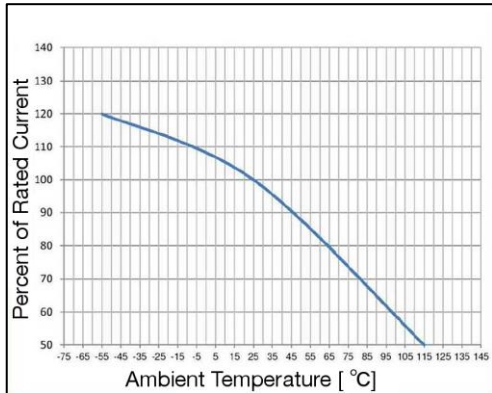


Specifications subject to change without notice

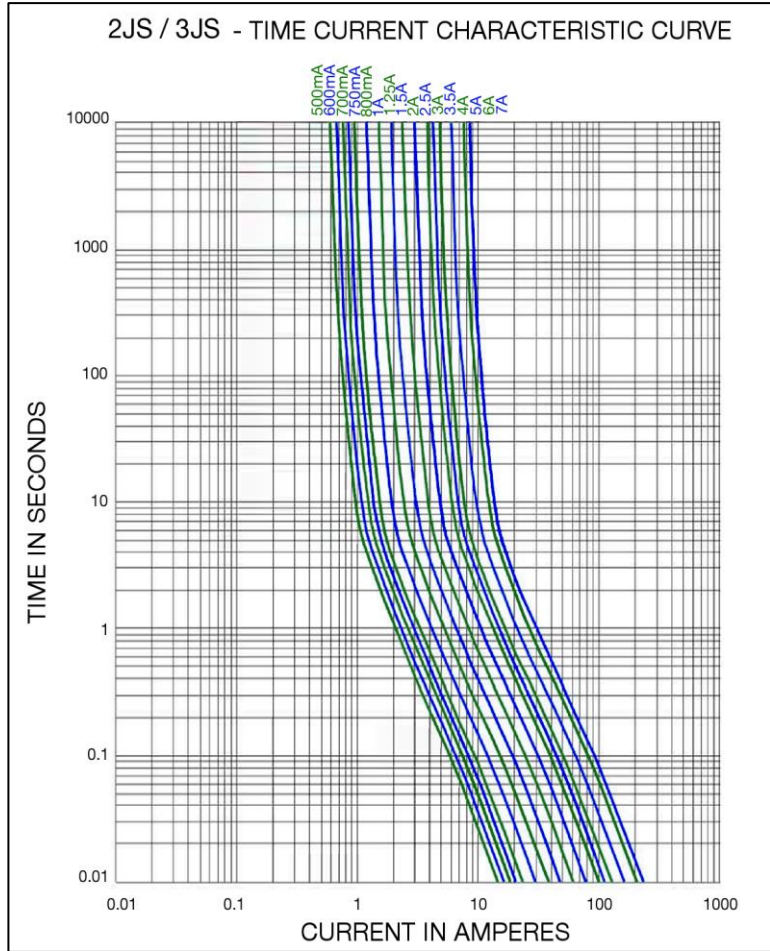
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Temperature Derating Curve

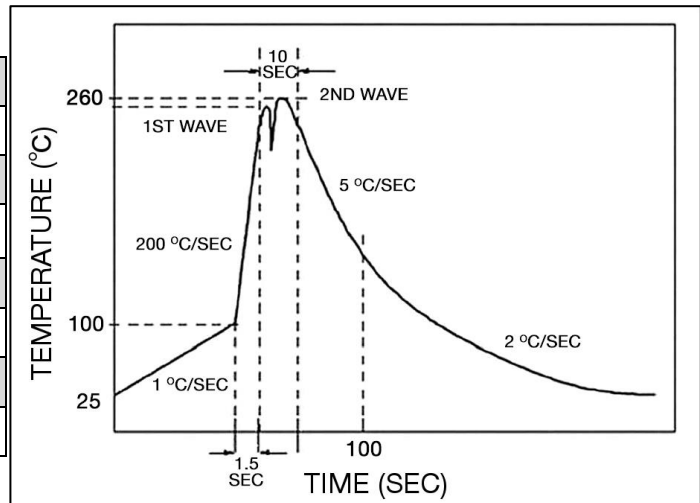


Average Time Current Curve



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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