



## R47001-050

### Features:

|                                                 |
|-------------------------------------------------|
| Size 0805                                       |
| Lead Free and compliant with the European Union |
| Fast tripping resettable circuit protection     |
| Surface mount packaging for automated assembly  |

### Technical Specifications:

**I<sub>H</sub>** Hold current maximum current device will pass without interruption in 20° C still air unless

**I<sub>T</sub>**: Trip current: minimum current that will switch the device from low resistance, Resistance in 20°C still unless otherwise specified.

**I<sub>max</sub>**: Maximum current device can VMAXIMAX 100 vcycles --- NO arcing or burning.

**V<sub>max</sub>**: Maximum Voltage device can withstand without damage at rated current.

**P<sub>d</sub>**: power dissipated from device when in the tripped state in 20°C still air unless otherwise specified.

**R<sub>min</sub>**: Minimum resistance of device as supplied at 20°C unless otherwise specified.

**R<sub>1</sub> max.** Maximum device resistance in the nonstripped state 1 hour post reflow.

### Thermal Derating chart-I H (A)

| Range | Maximum ambient operating temperature ( °C) |      |      |      |      |      |      |      |      |
|-------|---------------------------------------------|------|------|------|------|------|------|------|------|
|       | -.40                                        | -.20 | 0    | 23   | 40   | 50   | 60   | 70   | 85   |
| 500mA | 0,72                                        | 0,65 | 0,57 | 0,50 | 0,40 | 0,35 | 0,31 | 0,29 | 0,25 |

### Approval:



**SMT POLY FUSE SIZE 0805**

Part No.: **R47001-050**

Customer:

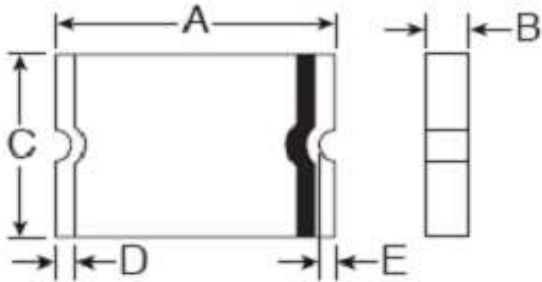
|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 06.04.2007 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 1 from 3   |

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## Technical Drawing and Informations

### Dimensions

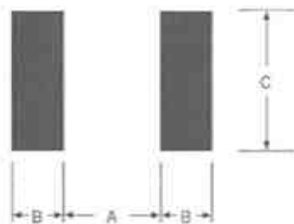


| A (mm) |      | B (mm) |      | C (mm) |      | D (mm) |      | E (mm) |      |
|--------|------|--------|------|--------|------|--------|------|--------|------|
| Min.   | Max. | Min.   | Max. | Min.   | Max. | Min.   | Max. | Min.   | Max. |
| 2,00   | 2,20 | 0,40   | 1,70 | 1,20   | 1,50 | 0,10   | 0,70 | 0,20   | --   |

### Performance Rating:

| Range | ICH          | IT          | V max       | I m ax     | Pd typ      | Maximum Time to Trip |             | Resistance: |            |             |
|-------|--------------|-------------|-------------|------------|-------------|----------------------|-------------|-------------|------------|-------------|
|       | (A)          | (A)         | (V DC)      | (A)        | (W)         | Current (A)          | Time (Sec.) | Rmin (Ω)    | Rmax (Ω)   | R1max (Ω)   |
|       | <b>500mA</b> | <b>0,50</b> | <b>1,00</b> | <b>6,0</b> | <b>40,0</b> | <b>0,5</b>           | <b>1,0</b>  | <b>1,20</b> | <b>0,1</b> | <b>0,50</b> |

### PAD Layout



| A (mm) | B (mm) | C (mm) |
|--------|--------|--------|
| 1,00   | 1,17   | 1,59   |

**SMT POLY FUSE SIZE 0805**

Part No.: **R47001-050**

Customer:

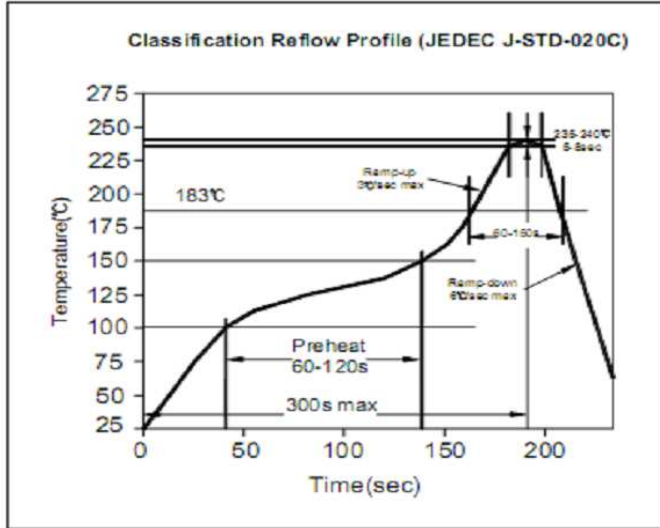
|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 06.04.2007 |
| APPD: | Jimmy |      |        | FINISH | Josy   | Sheet | 2 from 3   |

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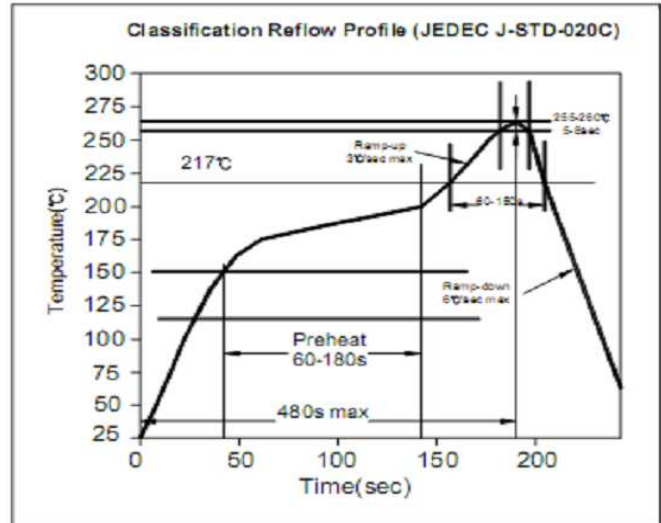


### Soldering Information

#### Lead Solder Performance



#### Lead free Solder Performance



### Ordering Informations:

| Item-No. & Range | ROHS | Packing |
|------------------|------|---------|
|------------------|------|---------|

|                   |          |           |
|-------------------|----------|-----------|
| <b>R47001-050</b> | <b>R</b> | <b>TR</b> |
|-------------------|----------|-----------|

**050 = 500mA**

|                    |                                  |
|--------------------|----------------------------------|
| <b>R= ROHS</b>     | <b>TR= Tape / Reel Standard)</b> |
| <b>N= Non ROHS</b> |                                  |
| <b>BU= Bulk</b>    |                                  |

|                      |                   |
|----------------------|-------------------|
| <b>SMT POLY FUSE</b> | <b>SIZE 0805</b>  |
| Part No.:            | <b>R47001-050</b> |
| Customer:            |                   |

|       |       |      |        |        |        |       |            |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW:  | Lexua | CHKD | Wilson | MATL:  | ChuChu | DATE  | 06.04.2007 |
| APPD: | Jimmi |      |        | FINISH | Josi   | Sheet | 3 from 3   |

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