

# EDCON-COMPONENTS



## Specifications

### Features

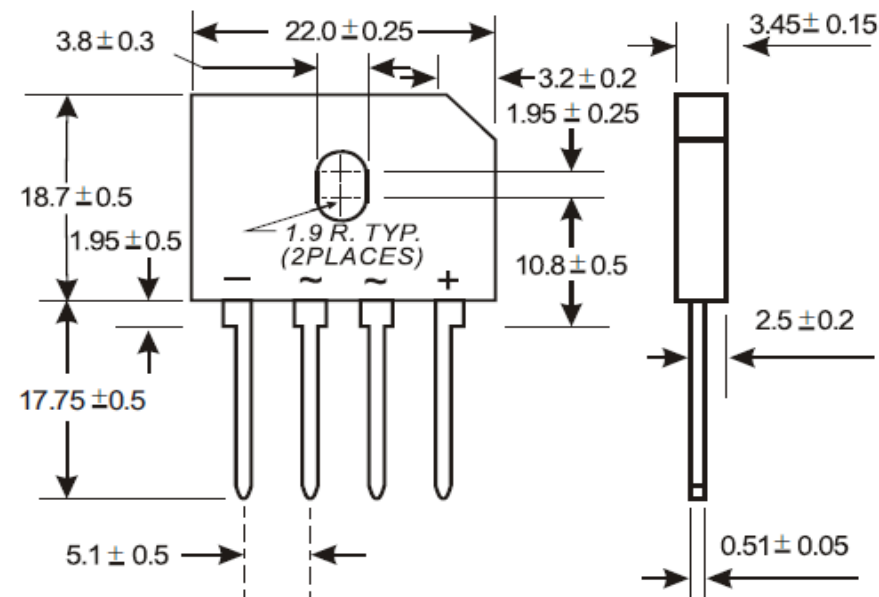
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Polarity symbols molded on body
- Plated leads solderable per MIL-STD-. 202 Method 208
- Polarity symbols marked on body
- High surge current capability
- Molded case body

Weight 3,8gr.

### Maximum Ratings & Electrical Characteristics Ratings at 25°C ambient temperature

|   | Sym<br>bols | GBU<br>6005      | GBU<br>601 | GBU<br>602 | GBU<br>604 | GBU<br>606 | GBU<br>608 | GBU<br>610 | Unit |
|---|-------------|------------------|------------|------------|------------|------------|------------|------------|------|
| Maximum reccurent peak reverse Voltage                    | VRRM        | 50               | 100        | 200        | 400        | 600        | 800        | 1000       | Volt |
| Maximum rms Input voltage                                 | VRMS        | 35               | 70         | 140        | 280        | 420        | 560        | 700        | Volt |
| Maximum dc blocking Voltage                               | VDC         | 50               | 100        | 200        | 400        | 600        | 800        | 1000       | Volt |
| Maximum average forward output rectified<br>TA=100°C      | I(AV)       | 6,0              |            |            |            |            |            |            | Amps |
| Peak forward surge current 8,3ms single<br>half sine-wave | IFSM        | 175              |            |            |            |            |            |            | Amps |
| Maximum forward voltage drop                              | VF          | 1,1              |            |            |            |            |            |            | Volt |
| Maximum revese voltage TA=25°C                            | IR          | 5                |            |            |            |            |            |            | µA   |
| Maximum revese voltage TA=125°C                           | IR          | 500              |            |            |            |            |            |            | µA   |
| Operating and storage temperature range                   | TJ<br>TSTG  | -55°C to + 150°C |            |            |            |            |            |            | °C   |
| I²t rating for fusing                                     | I²t         | 127              |            |            |            |            |            |            | A²t  |
| Typical thermal resistance junction to case               | R 0 JA      | 2,2              |            |            |            |            |            |            | °C/W |

## Technical Drawing (Unit: inch(mm))



**Single Inline Bridge Rectifier  
6,0A**

EDCON-Ser. **E15014**

International  
Serie: **GBU6xx**

|       |        |      |        |        |        |           |           |      |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE | 10.05.2010 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. |      | 1 from 5   |

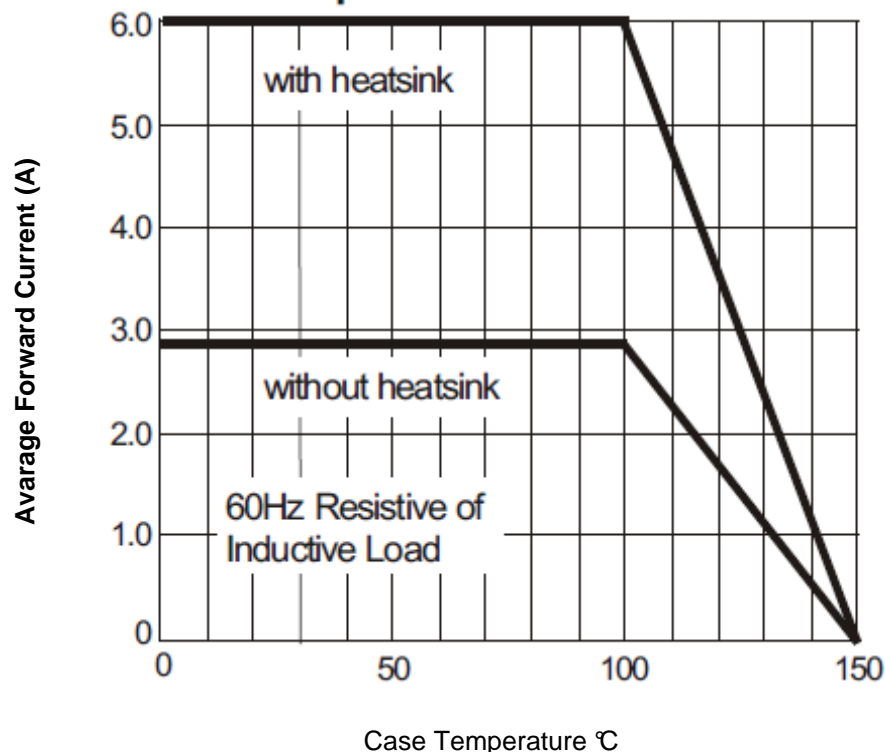
[www.edcon-components.com](http://www.edcon-components.com)

email: [info@edcon-components.com](mailto:info@edcon-components.com)

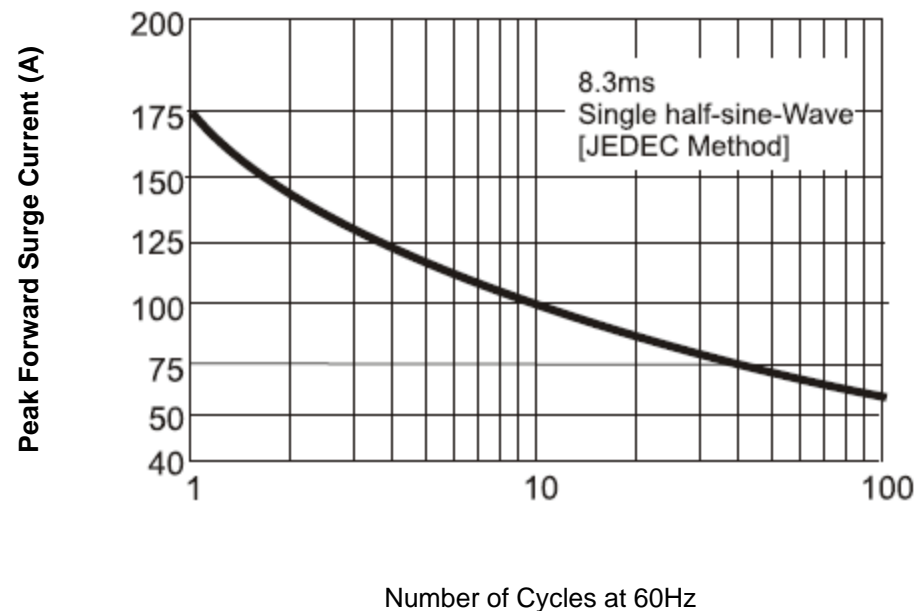


Rating & Characteristics Curves (TA=25°C unless otherwise noted)

Derating Curve for Output Rectified Current



Maximum NON Repetitive Forward Surge Current



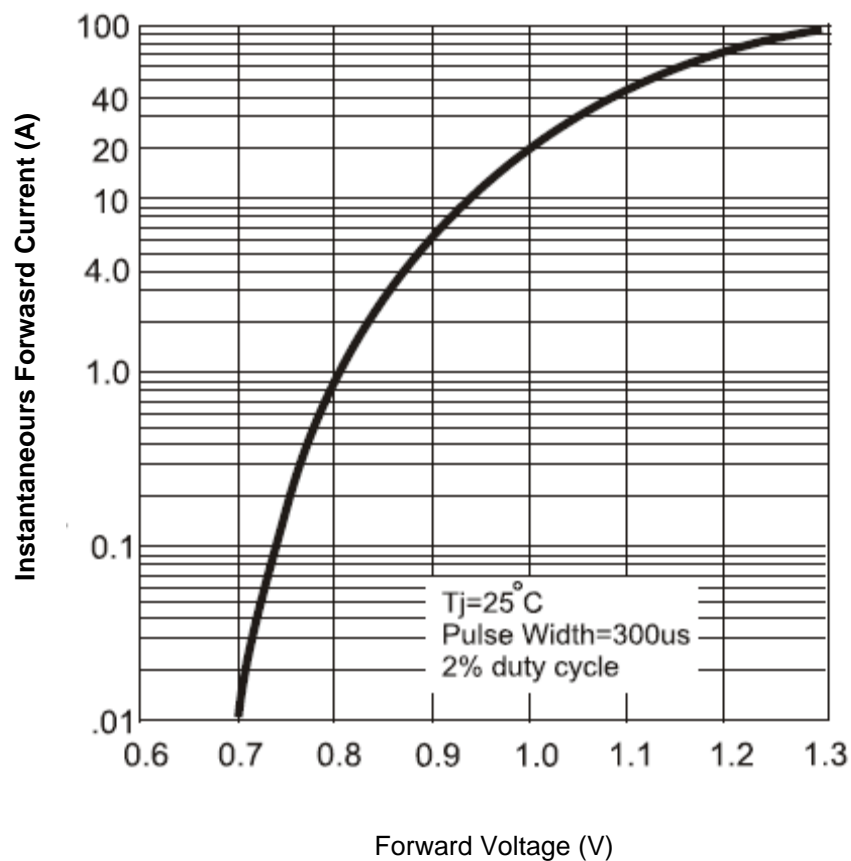
|  |               |
|--|---------------|
| <b>Single Inline Bridge Rectifier<br/>6,0A</b> |               |
| EDCON-Ser.                                     | <b>E15014</b> |
| International Serie:                           | <b>GBU6xx</b> |

|       |        |      |        |        |        |           |           |          |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 10.05.2010 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. | 2 from 5 |            |

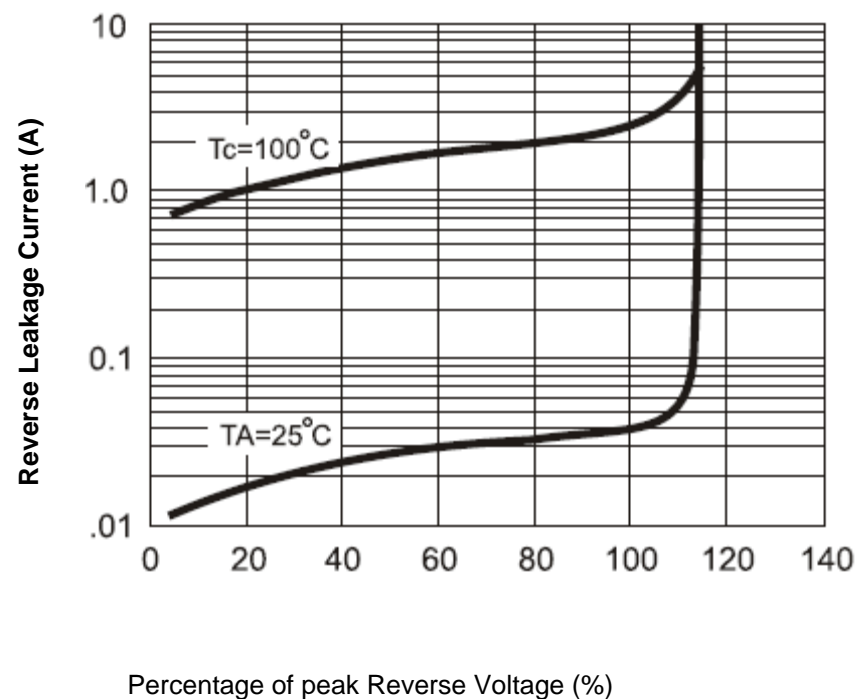


## Rating & Characteristics Curves (TA=25°C unless otherwise noted)

### Typical Forward Characteristics



### Typical Reverse Characteristics



**Single Inline Bridge Rectifier  
6,0A**

EDCON-Ser. **E15014**

International Serie: **GBU6xx**

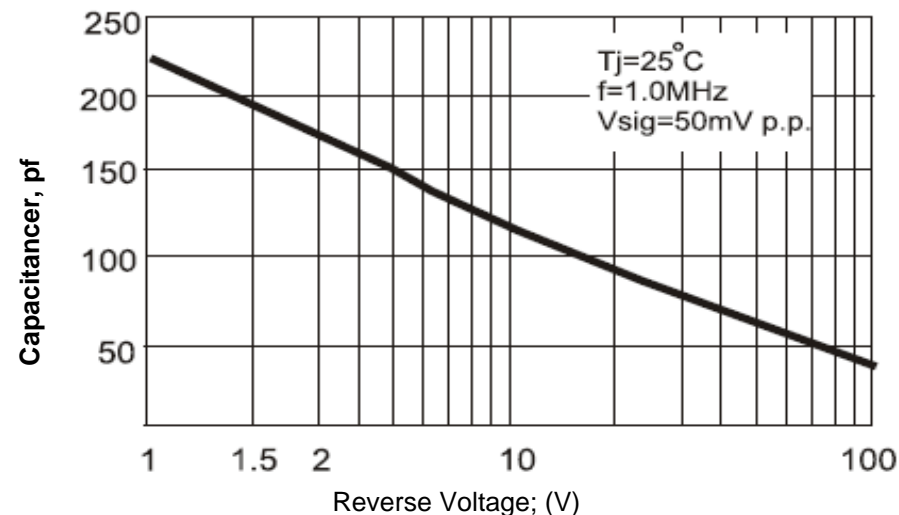
|       |        |      |        |        |        |           |           |          |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 10.05.2010 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. | 3 from 5 |            |

# EDCON-COMPONENTS



Rating & Characteristics Curves (TA=25°C unless otherwise noted)

Forward Current Derating Curve



## Ordering Informations

|               |                    |             |          |           |  |  |  |  |  |
|---------------|--------------------|-------------|----------|-----------|--|--|--|--|--|
| EDCON Serie   | International Type | NO function | ROHS     | Package   |  |  |  |  |  |
| <b>E15014</b> | <b>GBU6xx</b>      | <b>LL</b>   | <b>R</b> | <b>BX</b> |  |  |  |  |  |

|                         |                             |                             |                 |
|-------------------------|-----------------------------|-----------------------------|-----------------|
| Look Voltage Code Table | <b>LL</b> = Long Lead       | <b>R</b> = ROHS Conform     | <b>BX</b> = Box |
|                         | <b>L4</b> = Lead length 4mm | <b>N</b> = NON ROHS Conform |                 |

|   |               |
|---|---------------|
| <b>Single In-Line Bridge Rectifier<br/>6,0A</b> |               |
| EDCON-Ser.                                      | <b>E15014</b> |
| International Serie:                            | <b>GBU6xx</b> |

|       |        |      |        |        |        |           |           |      |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE | 10.05.2010 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. |      | 4 from 5   |



Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)



|  |               |
|--|---------------|
| <b>Single Inline Bridge Rectifier<br/>6,0A</b> |               |
| EDCON-Ser.                                     | <b>E15014</b> |
| International Serie:                           | <b>GBU6xx</b> |

|       |        |      |        |        |        |           |           |          |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 10.05.2010 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. | 5 from 5 |            |