

# EDCON-COMPONENTS



## Specifications

### Features

Diffused Junction  
Low Forward Voltage Drop  
High Current Capability  
High Surge Current Capability

### Mechanical Data

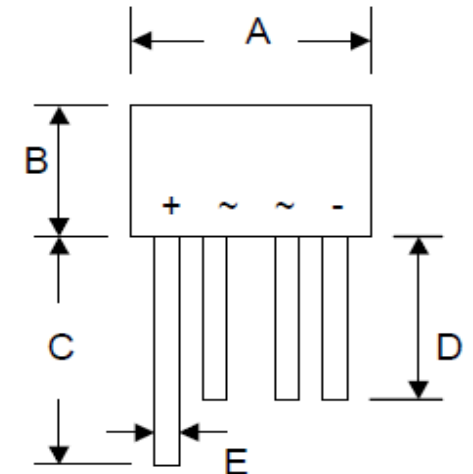
Molded plastic  
Terminals: plated leads solderable per MIL-STD 202 Method 208  
Polarity symbols marked on body.  
Weight 0,22gram

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

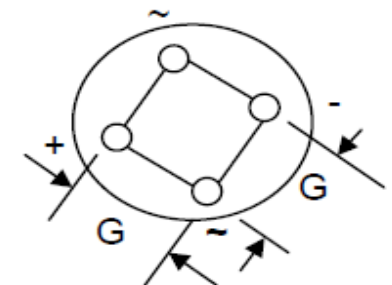
|                                                                                      | Sym bols | 2W005          | 2W01 | 2W02 | 2W04 | 2W06 | 2W08 | 2W10 | Unit     |
|--------------------------------------------------------------------------------------|----------|----------------|------|------|------|------|------|------|----------|
| Maximum reecurrent 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 rectified current                                            |          | 2              |      |      |      |      |      |      | Amps     |
| Peak forward surge current, 8,3mS single half sine wave superimposed on rated load   |          | 60             |      |      |      |      |      |      | Amps     |
| Max. forward voltage drop p. elem. At 1,0A peak                                      |          | 1,0            |      |      |      |      |      |      | Volts    |
| Maximum DC reverse current at rated DC blocking voltage per element T=25°C / T=100°C |          | 5,0<br>500,0   |      |      |      |      |      |      | µA<br>pf |
| Operating Temperature                                                                |          | -55°C ~ +125°C |      |      |      |      |      |      | °C       |
| Storage Temperature                                                                  |          | -55°C ~ +150°C |      |      |      |      |      |      | °C       |

|       |        |      |        |        |        |           |
|-------|--------|------|--------|--------|--------|-----------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE |
| APPD: | Schumi |      |        | FINISH | Jamy   |           |

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



|   | Dimensions |      |
|---|------------|------|
|   | mm         |      |
|   | min        | max. |
| A | 8,6        | 9,4  |
| B | 6,9        | 7,4  |
| C | 27,9       |      |
| D | 25,4       |      |
| E | 0,71       | 0,81 |
| G | 4,6        | 5,6  |



### Round Bridge Rectifier 2,0A

|                      |        |
|----------------------|--------|
| EDCON-Ser.           | E21006 |
| International Serie: | 2Wxx   |

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

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



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

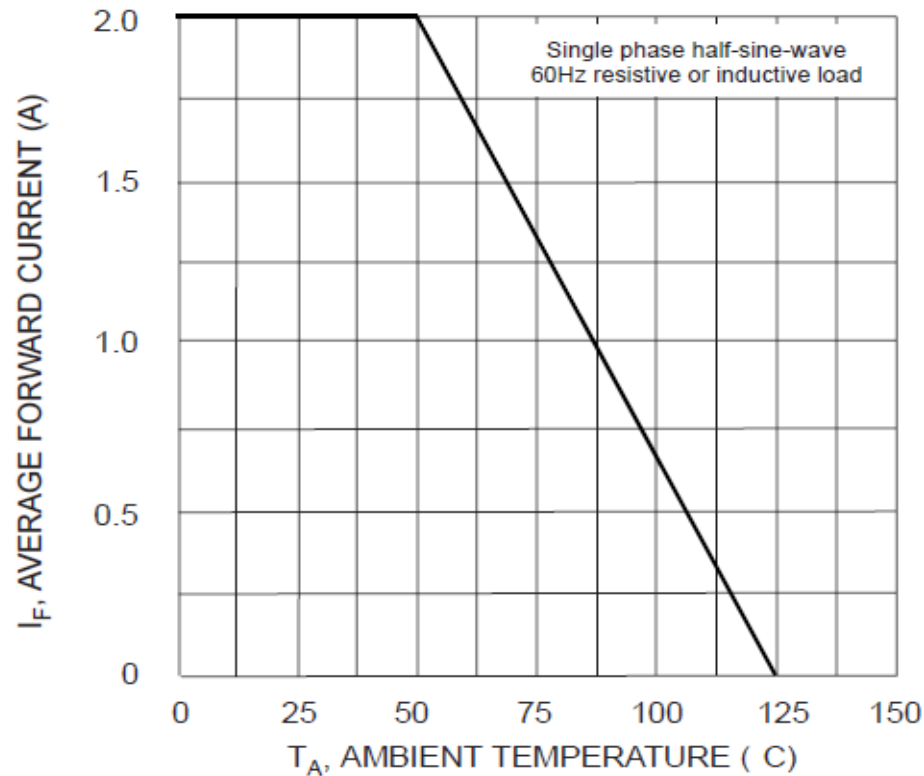


Fig. 1 Forward Current Derating Curve

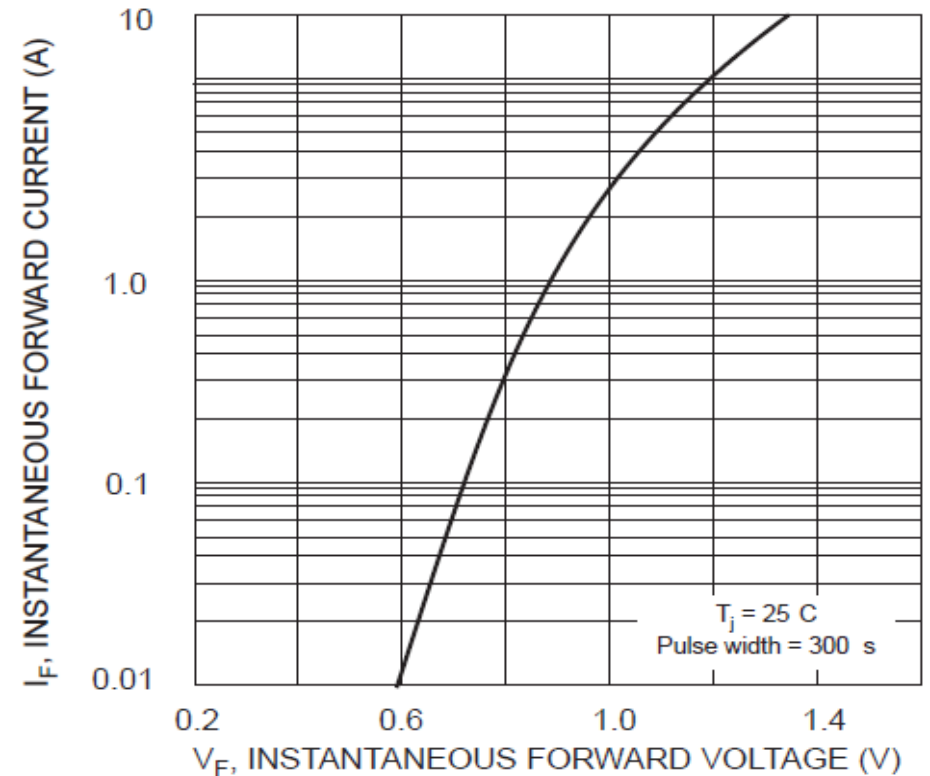


Fig. 2 Typical Forward Characteristics, per element

Round Bridge Rectifier 2,0A

EDCON-Ser. **E21006**International  
Serie: **2Wxx**

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



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

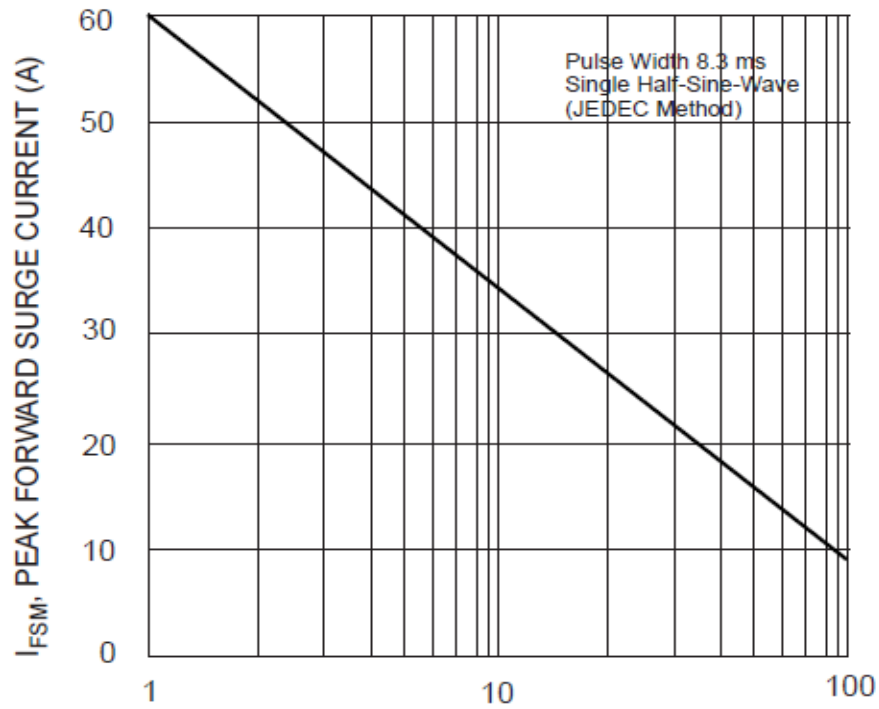


Fig. 3 Max Non-Repetitive Surge Current

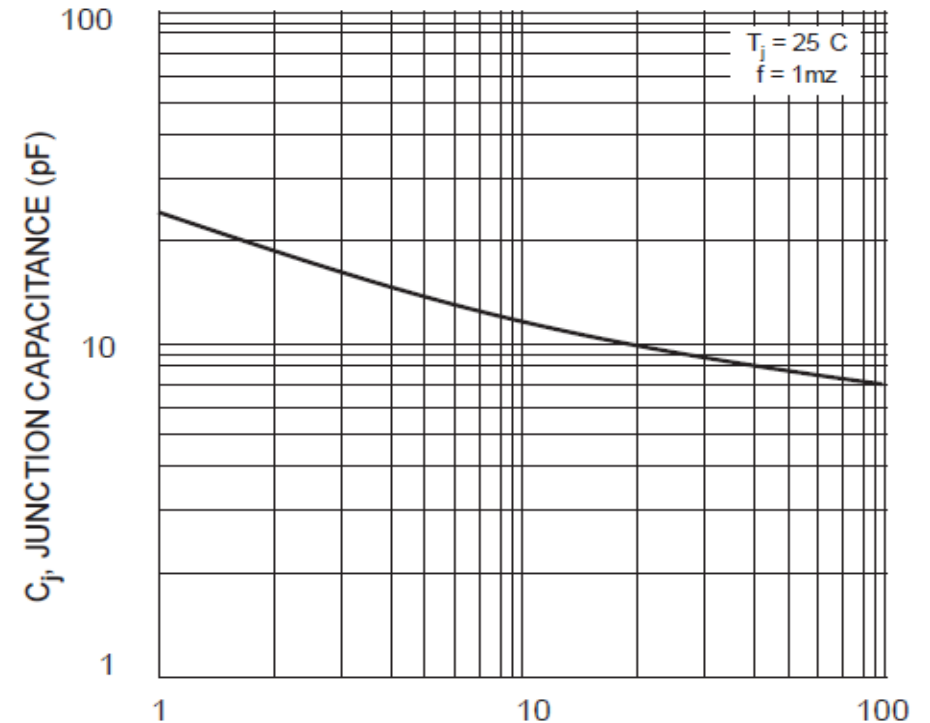


Fig. 4 Typical Junction Capacitance

**Round Bridge Rectifier 2,0A**

 EDCON-Ser. **E21006**

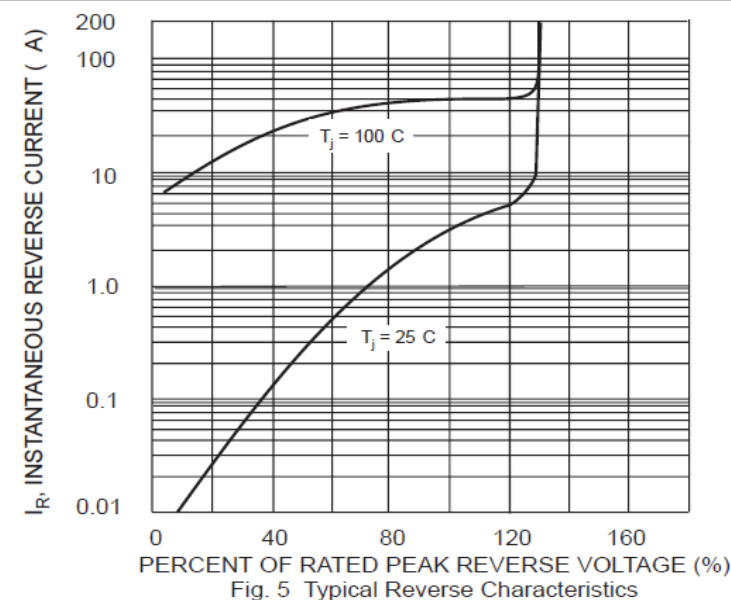
 International Serie: **2Wxx**

|       |        |      |        |        |        |           |           |          |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| 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)



## Ordering Informations

| EDCON Serie | International Type | Lead function | ROHS | Package |  |  |  |  |  |  |
|-------------|--------------------|---------------|------|---------|--|--|--|--|--|--|
|-------------|--------------------|---------------|------|---------|--|--|--|--|--|--|

|               |             |           |          |           |  |  |  |  |  |  |
|---------------|-------------|-----------|----------|-----------|--|--|--|--|--|--|
| <b>E21006</b> | <b>2Wxx</b> | <b>LL</b> | <b>R</b> | <b>BG</b> |  |  |  |  |  |  |
|---------------|-------------|-----------|----------|-----------|--|--|--|--|--|--|

|                         |                             |                             |                     |
|-------------------------|-----------------------------|-----------------------------|---------------------|
| Look Voltage Code Table | <b>LL</b> = Long Lead       | <b>R</b> = ROHS Conform     | <b>BG</b> = Polybag |
|                         | <b>L4</b> = Lead Length 4mm | <b>N</b> = NON ROHS Conform |                     |

|                                    |               |
|------------------------------------|---------------|
| <b>Round Bridge Rectifier 2,0A</b> |               |
| EDCON-Ser.                         | <b>E21006</b> |
| International Serie:               | <b>2Wxx</b>   |

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

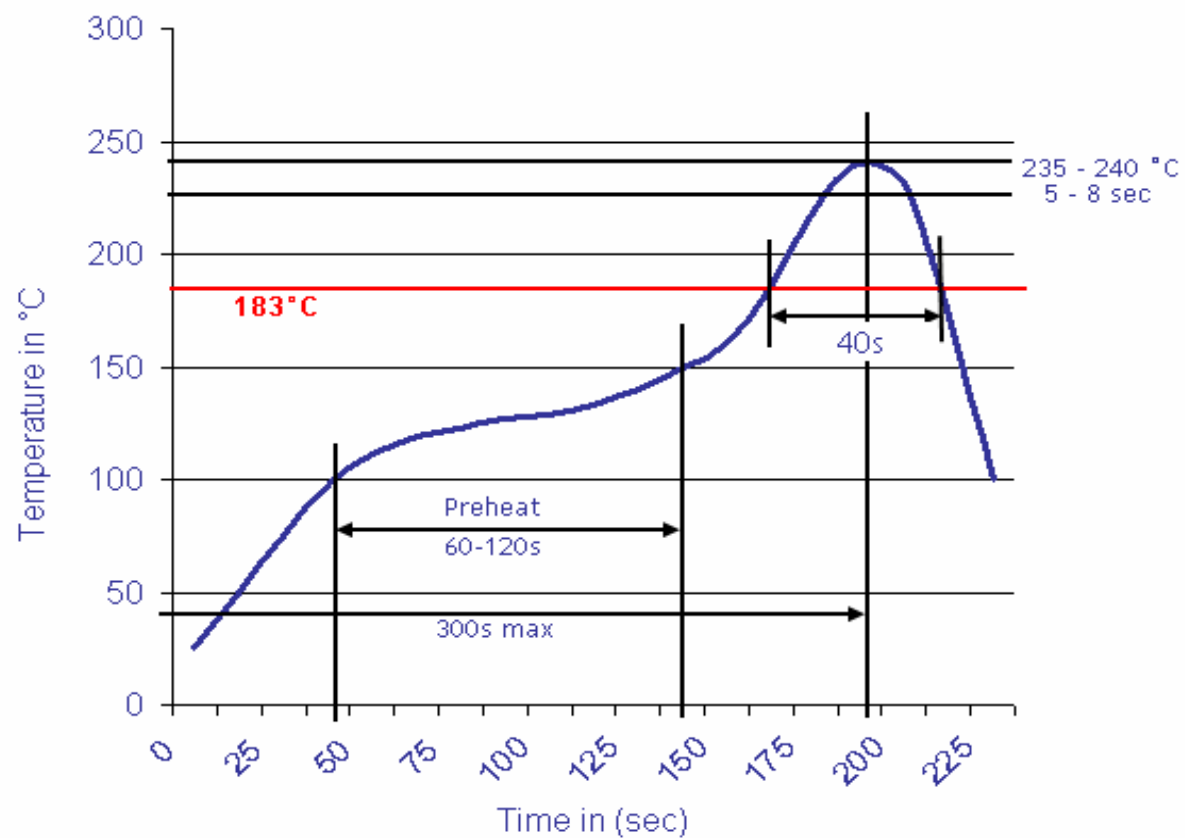
[www.edcon-components.com](http://www.edcon-components.com)

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



## Soldering Profile Curve

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



Round Bridge Rectifier 2,0A

EDCON-Ser. **E21006**International  
Serie: **2Wxx**

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