

EDCON-COMPONENTS



Specifications

Features

- Plastic package has Underwriters Laboratory Flammability Class 94V-0
- High Surge current capability / UL-File number 252843
- Glass passivated chip junction
- High temperature soldering guaranteed:

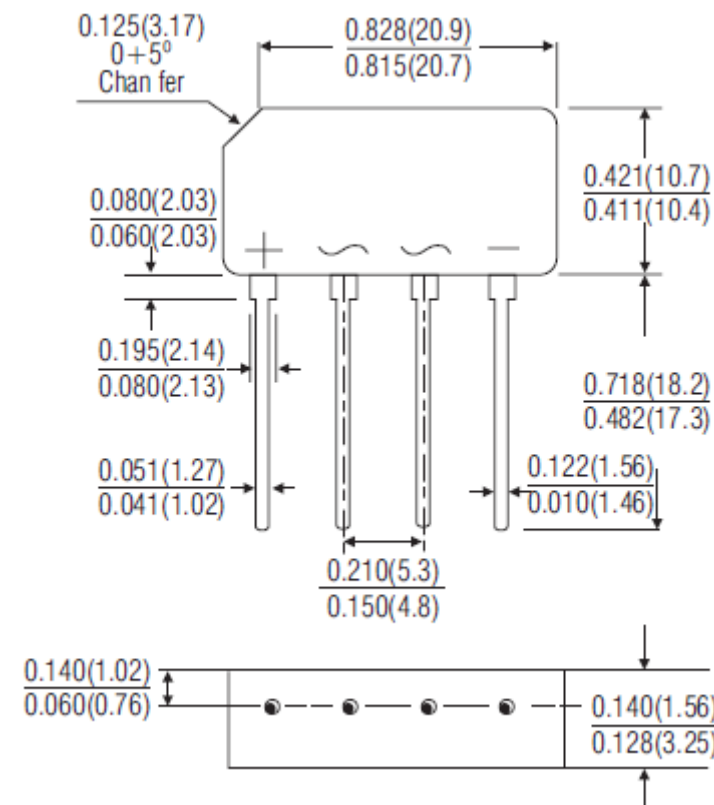
Mechanical Data

- CASE: 5S Molded plastic body
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols marked on body
- Weight: 7,0gr.

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

| | Sym bols | GBL 401G | GBL 402G | GBL 403G | GBL 404G | GBL 405G | GBL 406G | GBL 407G | 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 output rectified TA=50°C | I(AV) | 4,0 | | | | | | | Amps |
| Peak forward surge current 8,3ms single half sine-wave | IFSM | 125 | | | | | | | Amps |
| Maximum forward voltage IF=1,5A | VF | 1,1 | | | | | | | Volt |
| Maximum revese voltage TA=25°C | IR | 5,0 | | | | | | | µA |
| Maximum revese voltage TA=125°C | IR | 250 | | | | | | | µA |
| Operating and storage temperature range | TJ TSTG | -55°C to + 150°C | | | | | | | °C |
| Type junction capacitance VR=3,0V f=1,0Mhz | CJ | 95 | | | 40 | | | | pF |

Technical Drawing (Unit: inch(mm))



**Single Inline Bridge Rectifier
4,0A (Glass Passivated)**

EDCON-Ser. **E14009**

International Serie: **GBL4xxG**

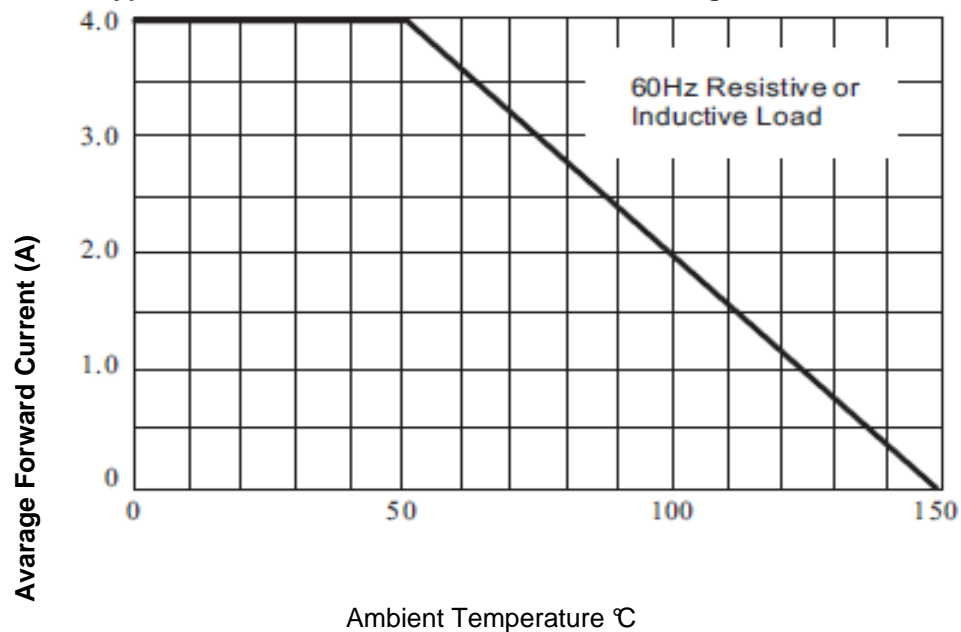
| | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 10.05.2010 |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | | 1 from 5 |

EDCON-COMPONENTS

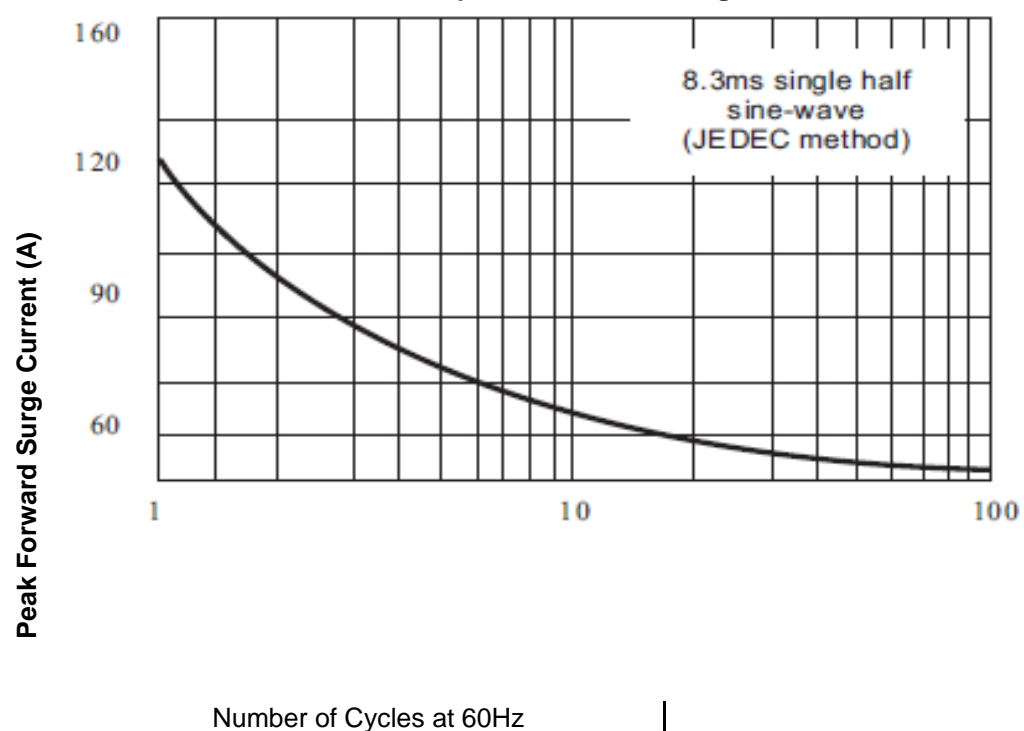


Rating & Characteristics Curves (TA=25°C unless otherwise noted)

Typical Forward Current Characteristics Derating Curve



Maximum NON Repetitive Forward Surge Current



**Single Inline Bridge Rectifier
4,0A (Glass Passivated)**

EDCON-Ser. **E14009**

International Serie: **GBL4xxG**

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

www.edcon-components.com

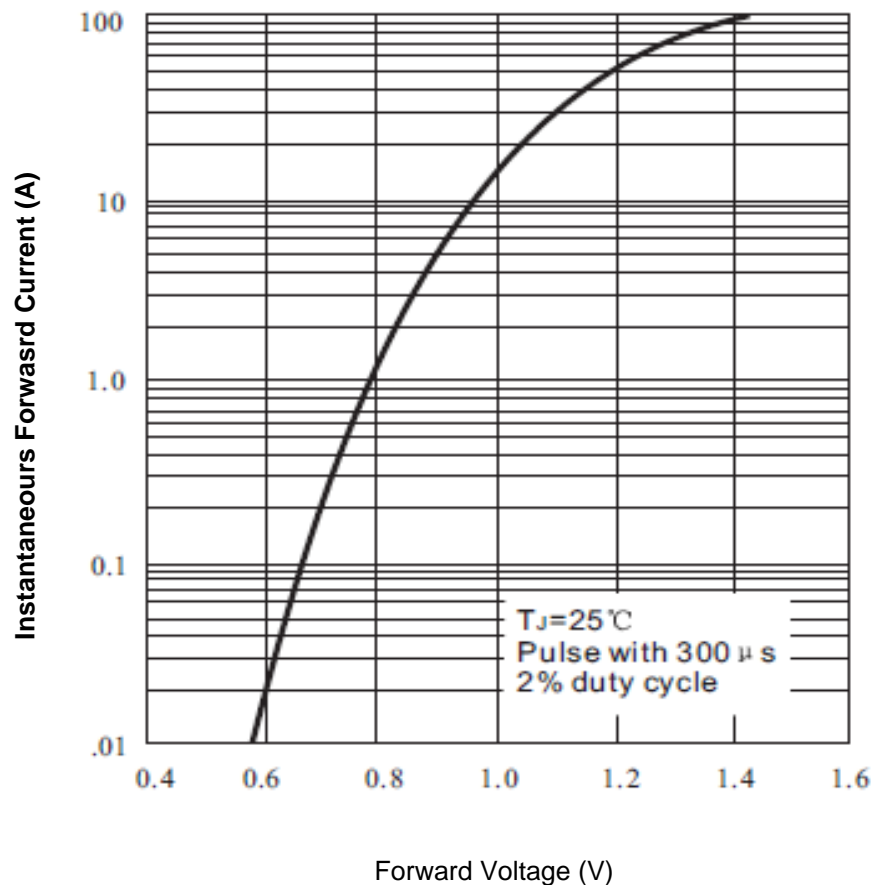
email: info@edcon-components.com

EDCON-COMPONENTS

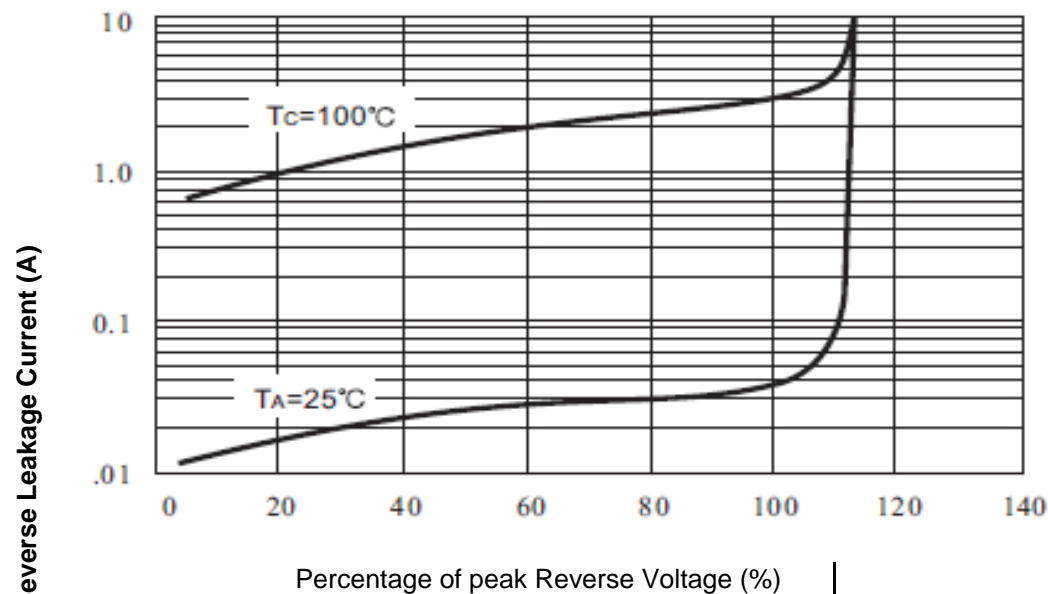


Rating & Characteristics Curves (TA=25°C unless otherwise noted)

Typical Forward Characteristics



Typical Reverse Characteristics



**Single Inline Bridge Rectifier
4,0A (Glass Passivated)**

EDCON-Ser. **E14009**

International Serie: **GBL4xxG**

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

www.edcon-components.com

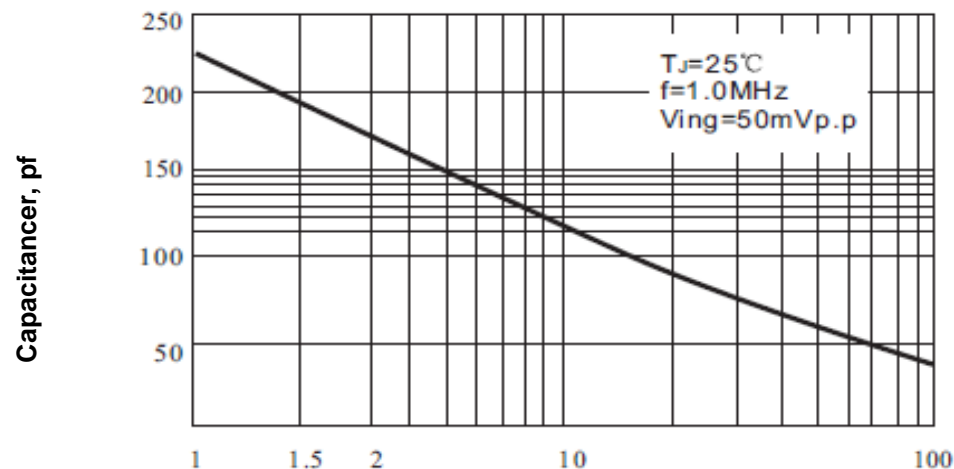
email: info@edcon-components.com

EDCON-COMPONENTS



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

Typical Junction Capacitance



Ordering Informations

| | | | | | | | | | | |
|---------------|--------------------|------------------|----------|-----------|--|--|--|--|--|--|
| EDCON Serie | International Type | Lead Information | ROHS | Package | | | | | | |
| E14009 | GBLxxxG | LL | R | BX | | | | | | |

| | | | |
|-------------------------|-----------------------------|-----------------------------|-----------------|
| Look Voltage Code Table | LL = Long Lead | R = ROHS Conform | BX = Box |
| | L4 = Lead Length 4mm | N = NON ROHS Conform | |

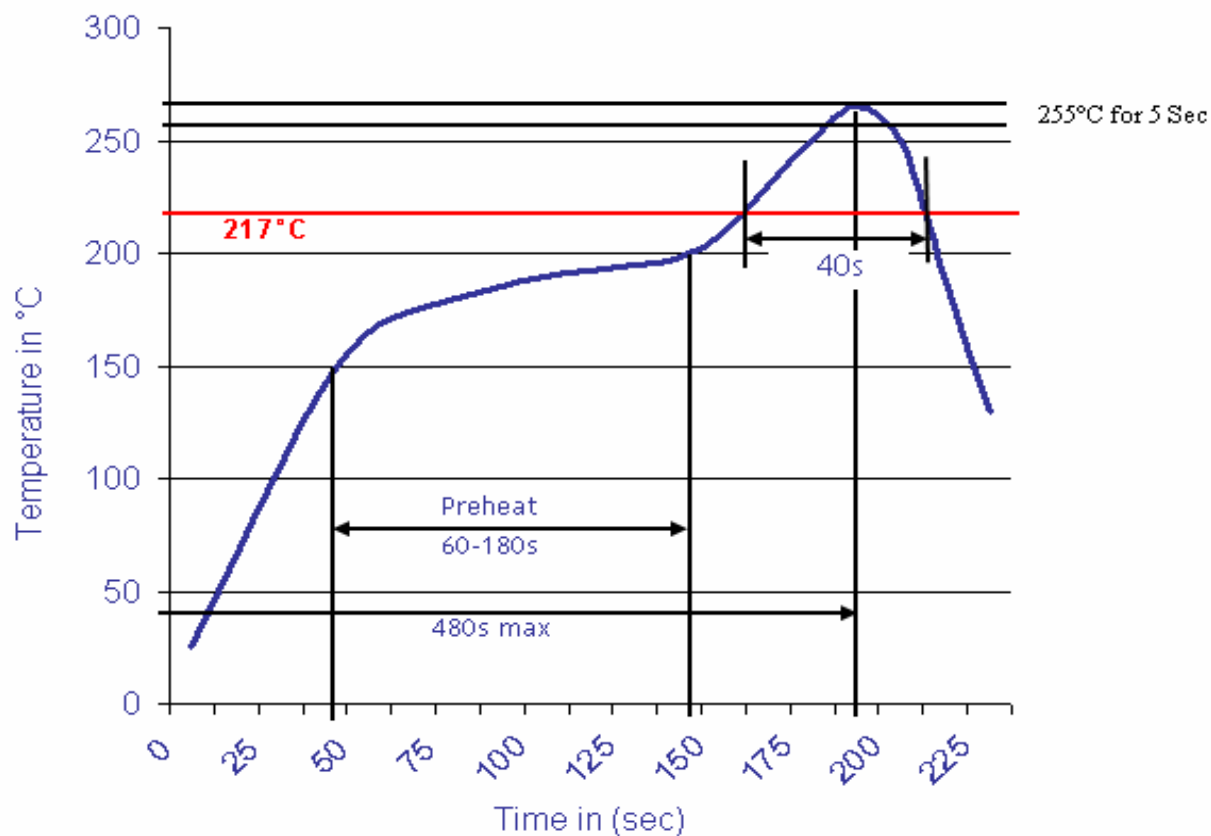
| | |
|---|----------------|
| Single Inline Bridge Rectifier 4,0A (Glass Passivated) | |
| EDCON-Ser. | E14009 |
| International Serie: | GBL4xxG |

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



| | |
|---|----------------|
| Single Inline Bridge Rectifier 4,0A (Glass Passivated) | |
| EDCON-Ser. | E14009 |
| International Serie: | GBL4xxG |

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