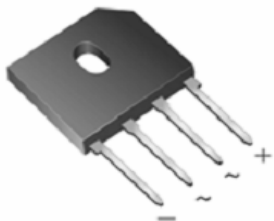


# EDCON-COMPONENTS



## Specifications

### Features

Glass Passivated Die Construction High Base Dielectric Strength of 1500VRMS  
 Low Reverse Leakage Current; Surge Overload Rating to 150A Peak  
 Plastic Material: UL Flammability Classification Rating UL94V-0  
 UL Listed Under Recognized Component Index File Number E252843

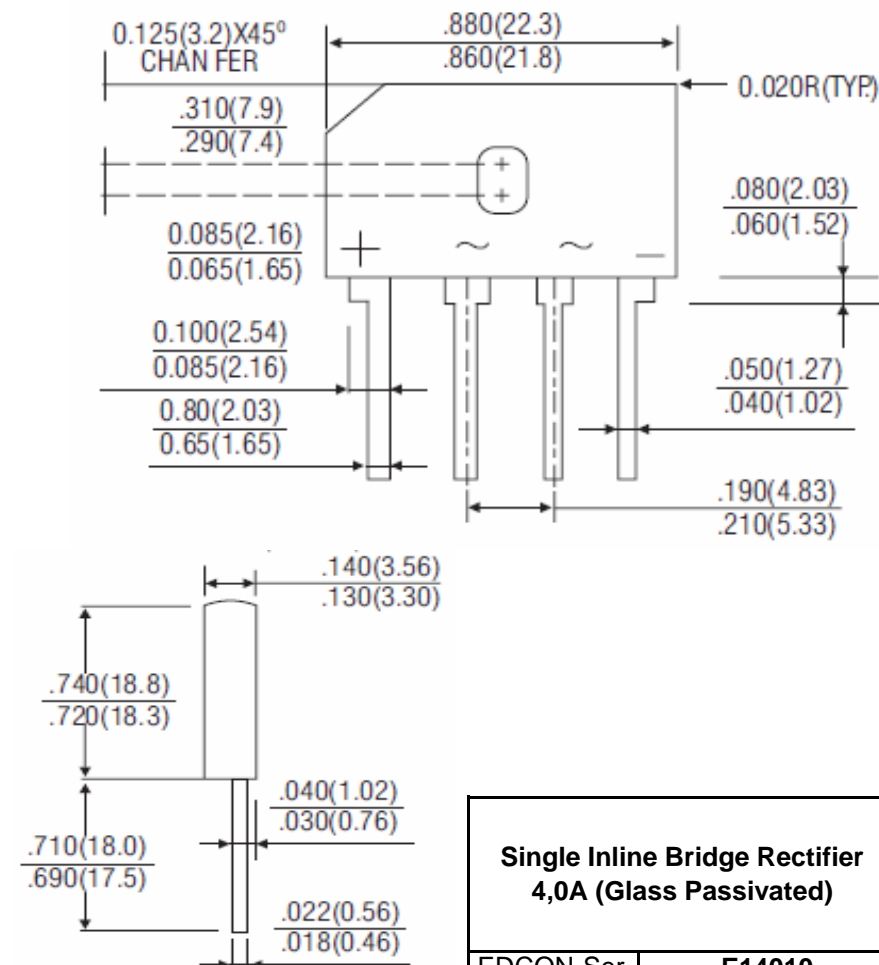
### Mechanical Data

Case: Molded plastic  
 Terminals: plated leads solderable per MIL-STD-202, Method 208  
 Polarity: Polarity symbols marked on body  
 Weight: 6,6gr.

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

	Symbols	GBU 4A	GBU 4B	GBU 4D	GBU 4G	GBU 4J	GBU 4K	GBU 4M	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 TA=50°C	I(AV)	2,2 / 4,0							Amps
Peak forward surge current 8,3ms single half sine-wave	IFSM	150							Amps
Maximum forward voltage	VF	1							Volt
Maximum revese voltage TA=25°C	IR	5,0							µA
Maximum revese voltage TA=100°C	IR	50							µA
Operating and storage temperature range	TJ TSTG	-55°C to + 150°C							°C
Type junction capacitance VR=3,0V f=1,0Mhz	CJ	80							pF
I <sup>2</sup> t rating for fusing	I <sup>2</sup> t	93							A <sup>2</sup> S
Typical thermal resistance junction to case	R 0 JC	2,2							°C/W

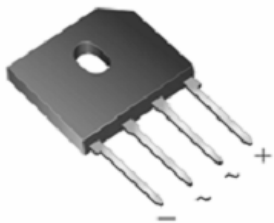
## Technical Drawing (Unit: inch(mm))



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

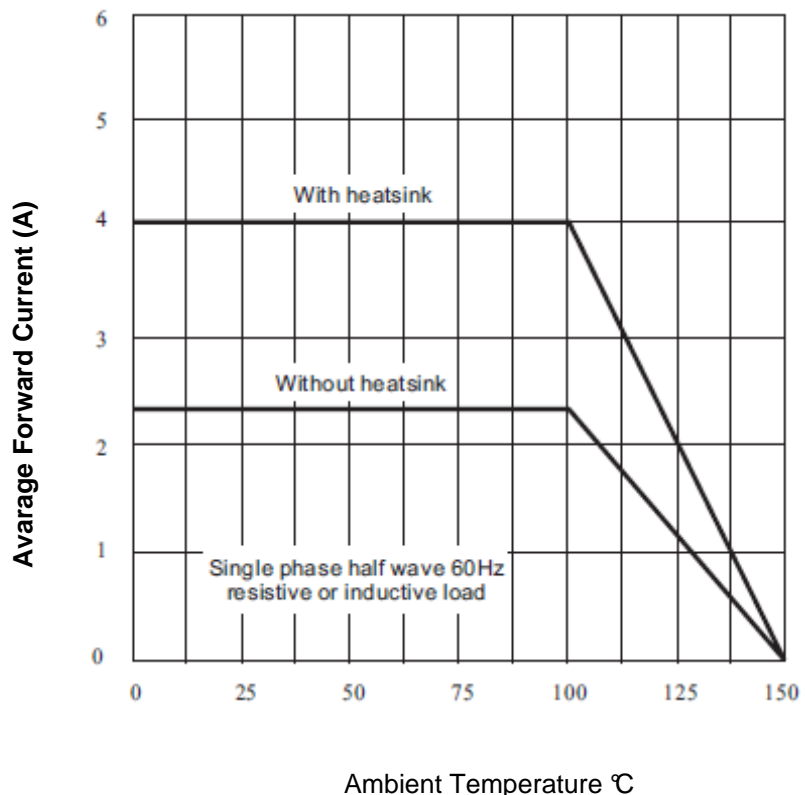
EDCON-Ser.	<b>E14010</b>
International Serie:	<b>GBU4x / GBU4xxG</b>

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

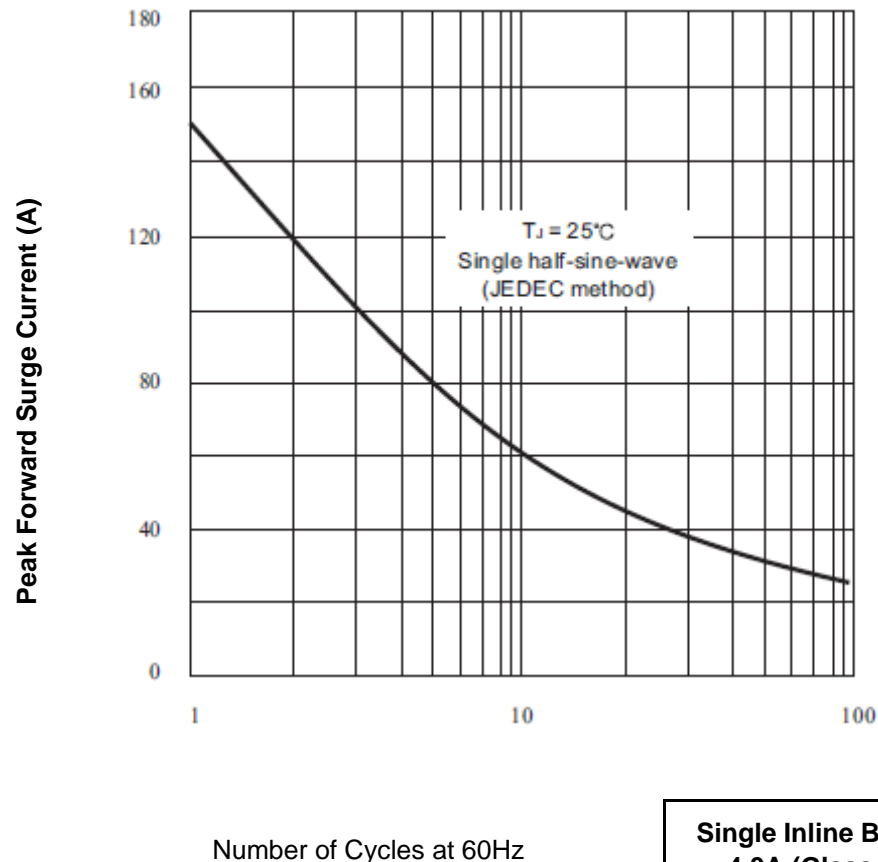


## Rating & Characteristics Curves (TA=25°C unless otherwise noted)

### Typical Forward Current Characteristics Derating Curve



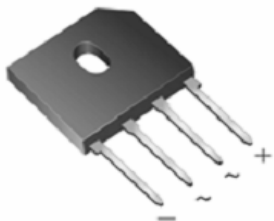
### Maximum NON Repetitive Forward Surge Current



<b>Single Inline Bridge Rectifier 4,0A (Glass Passivated)</b>	
EDCON-Ser.	<b>E14010</b>
International Serie:	<b>GBU4x / GBU4xxG</b>

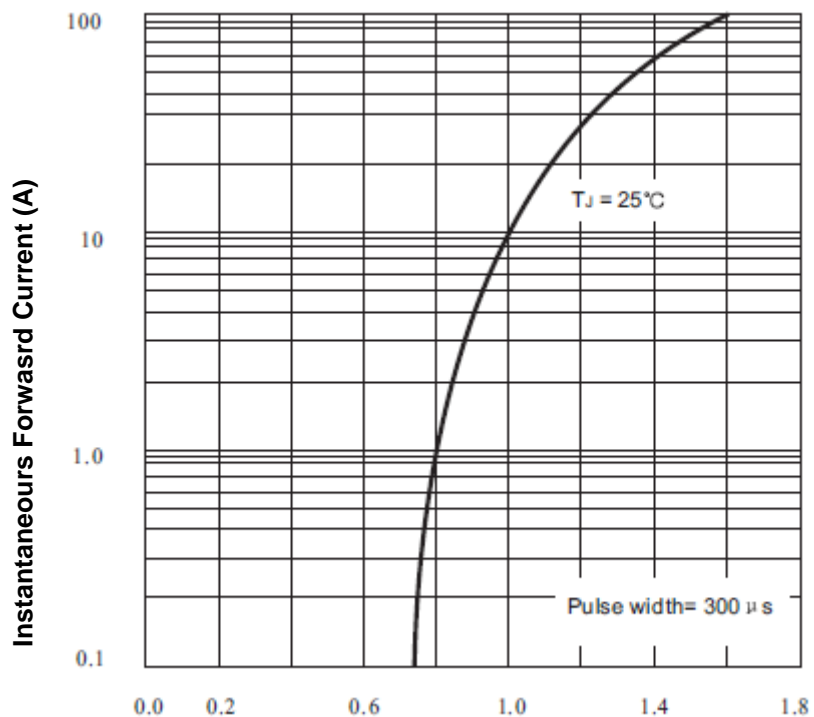
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.05.2010
APPD:	Schumi			FINISH	Jamy		Sheet No.		2 from 5

# EDCON-COMPONENTS

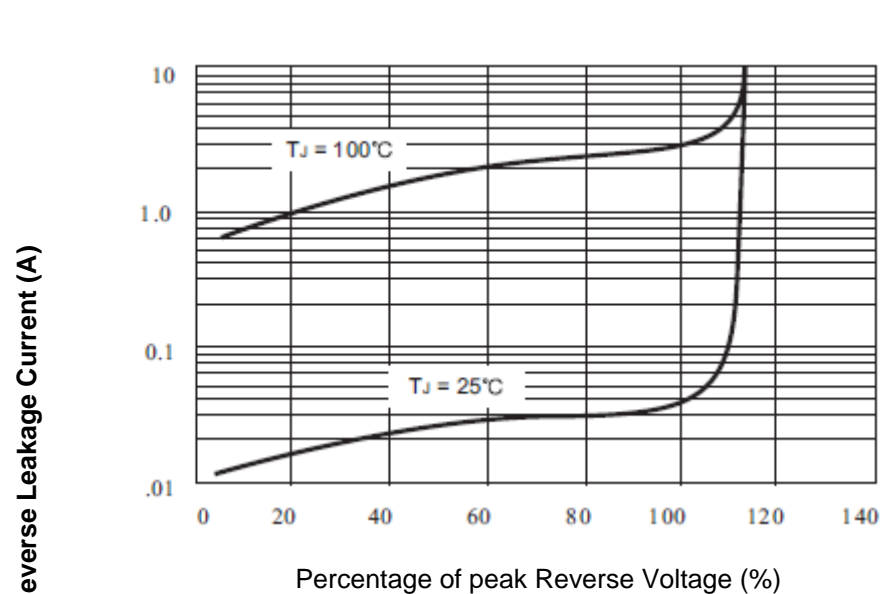


Rating & Characteristics Curves (TA=25°C unless otherwise noted)

Typical Forward Characteristics



Typical Reverse Characteristics



Forward Voltage (V)

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

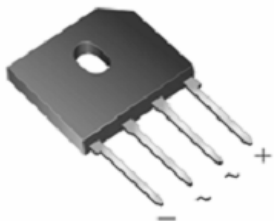
EDCON-Ser.	<b>E14010</b>
International Serie:	<b>GBU4x / GBU4xxG</b>

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

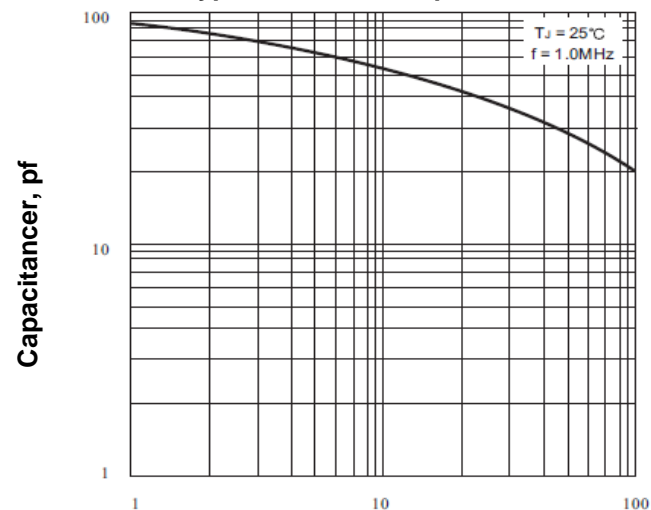
email: [info@edcon-components.com](mailto:info@edcon-components.com)

# EDCON-COMPONENTS



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

Typical Junction Capacitance



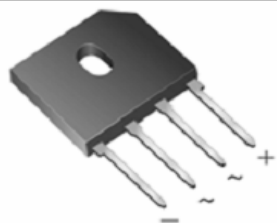
## Ordering Informations

EDCON Serie	International Type	Lead Information	ROHS	Package						
<b>E14010</b>	<b>GBU4x</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>L5</b> = Lead Length 5mm	<b>N</b> = NON ROHS Conform	

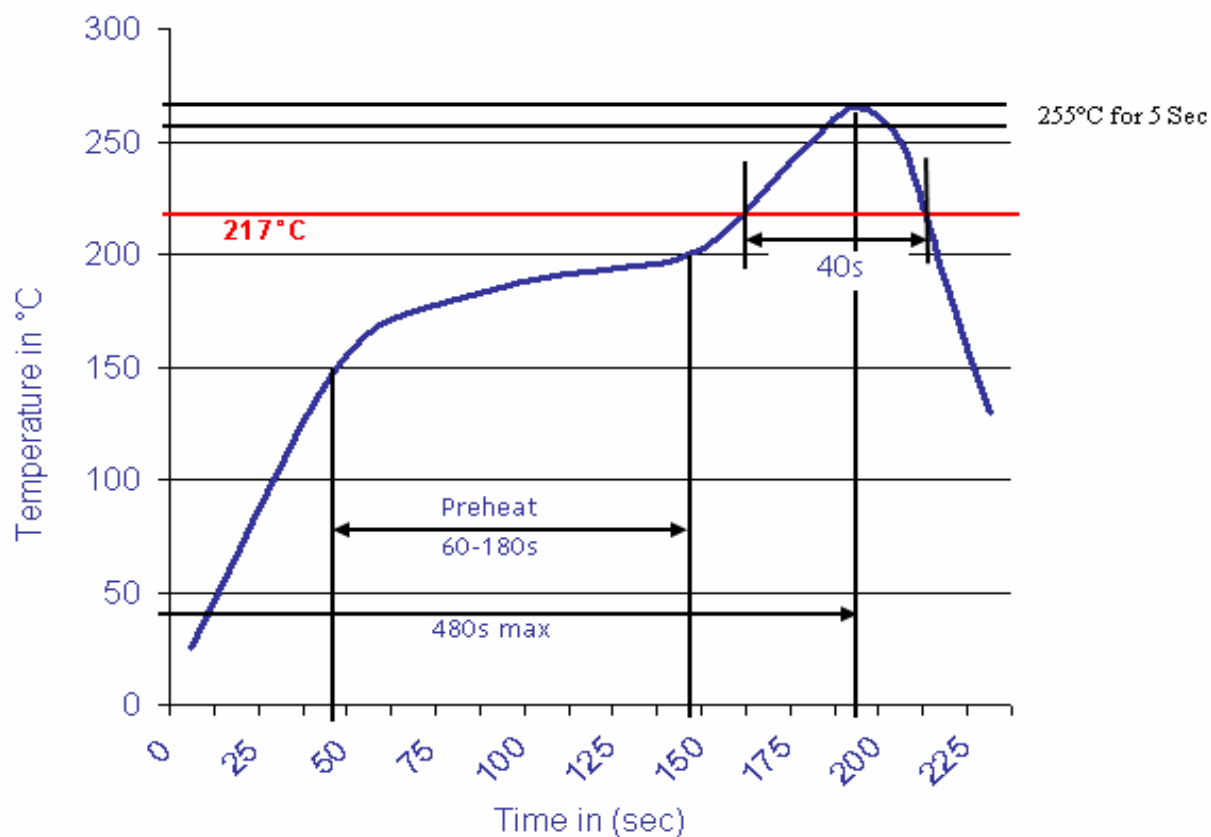
<b>Single Inline Bridge Rectifier 4,0A (Glass Passivated)</b>	
EDCON-Ser.	<b>E14010</b>
International Serie:	<b>GBU4x / GBU4xxG</b>

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 4,0A (Glass Passivated)</b>	
EDCON-Ser.	<b>E14010</b>
International Serie:	<b>GBU4x / GBU4xxG</b>

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