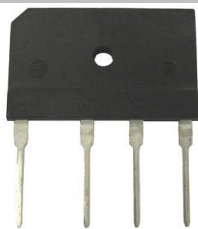


# EDCON-COMPONENTS



## Specifications

### Features

- Glass passivated die construction
- Plastic Material used carries UL flammability recognition 94V-0
- High surge current capability
- High case dielectric strength of 1500V rms

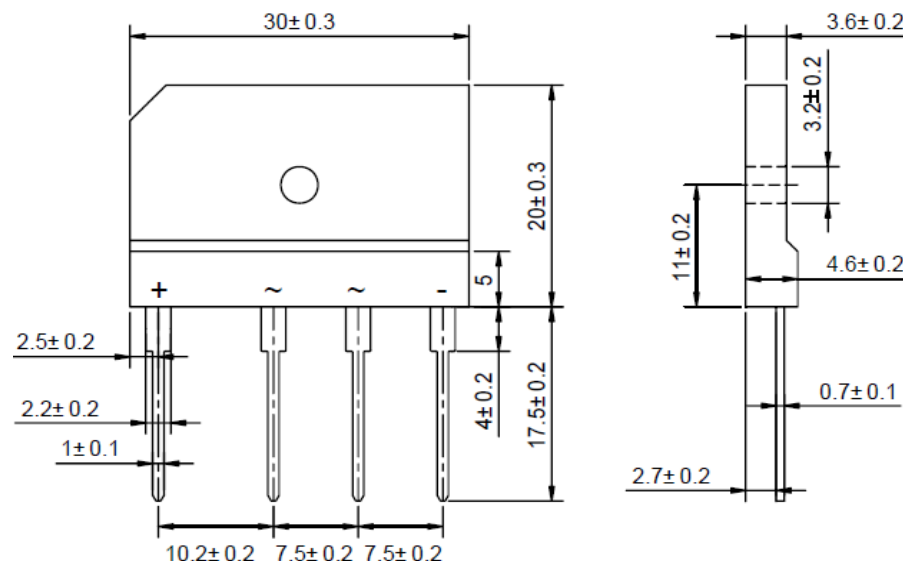
### Mechanical Data

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

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

	Symbols	GBJ6 D	GBJ6 G	GBJ6 J	GBJ6 K	GBJ6 M		Unit	
Maximum reccurent peak reverse Voltage	VRRM	200	400	600	800	1000		Volt	
Maximum rms Input voltage	VRMS	140	280	420	560	700		Volt	
Maximum dc blocking Voltage	VDC	200	400	600	800	1000		Volt	
Maximum average forward output rectified TA=50°C	I(AV)	6,0						Amps	
Peak forward surge current 8,3ms single half sine-wave	IFSM	180						Amps	
Rating for dusing (t<8,3ms)	I²t	134						A²sec	
Maximum Thermal resistance per led (1)	RoJA	26,0						°C/W	
	RoJC	3,4							
Operation Junction and storage temp.ran	Tj, Tstg	-55°C ~ +150°C						°C	
Maximum Instantaneous Forward Voltage per Leg	Vf	1						l <sub>fm</sub> =4	
Maximum DC reverse current at rated DC blocking voltage per leg	I <sub>r</sub>	5,0µA						T=25°C	
		500µA						T=125°C	
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.05.2010
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 5

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



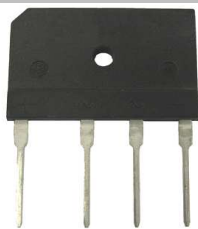
Note (1) Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0,47 x 0,47" (12x12mm) copper pads

**Single In-Line Bridge Rectifier 6A  
(Glass Passivated)**

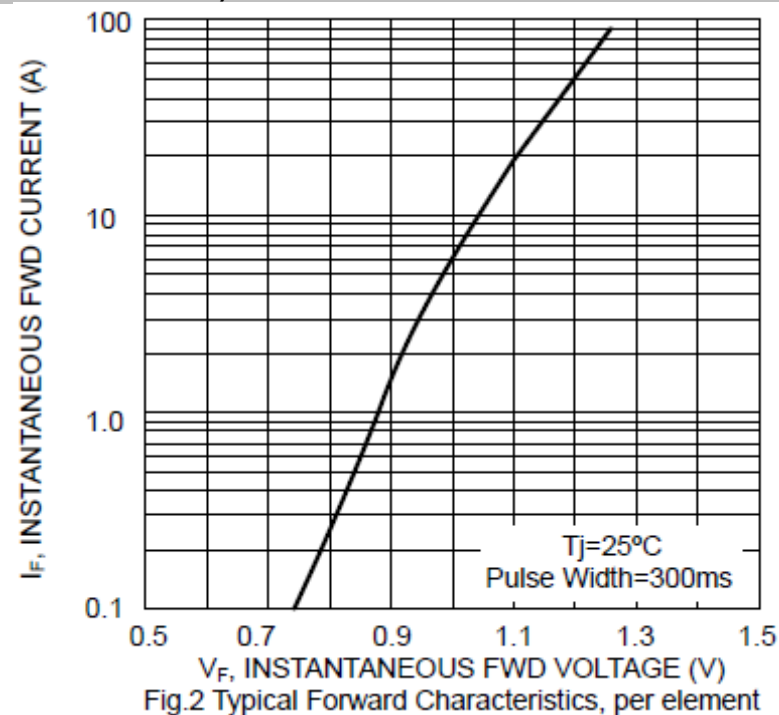
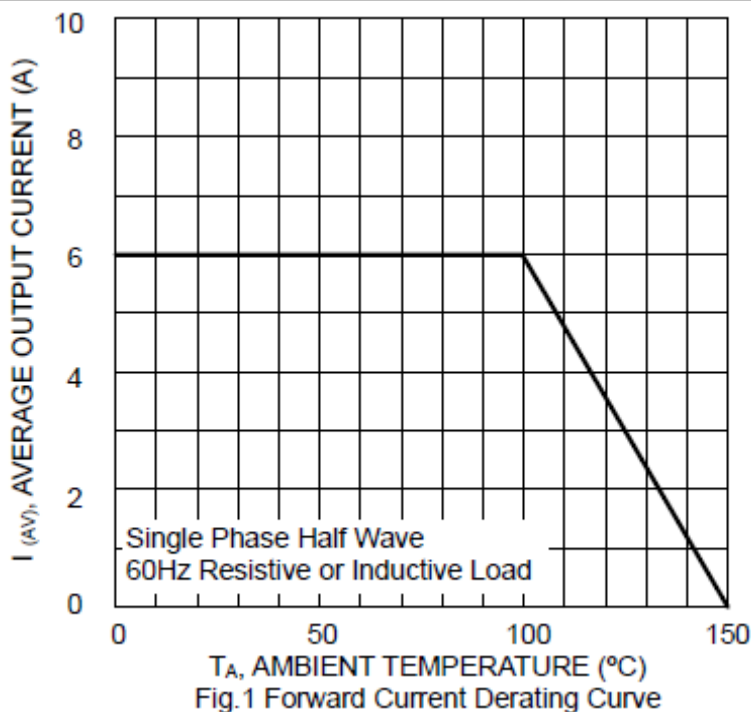
EDCON-Ser. **E14014**

International Serie: **GBJ6x**

# EDCON-COMPONENTS



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



**Single Inline Bridge Rectifier 6A  
(Glass Passivated)**

EDCON-Ser. **E14014**

International Serie: **GBJ6x**

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)

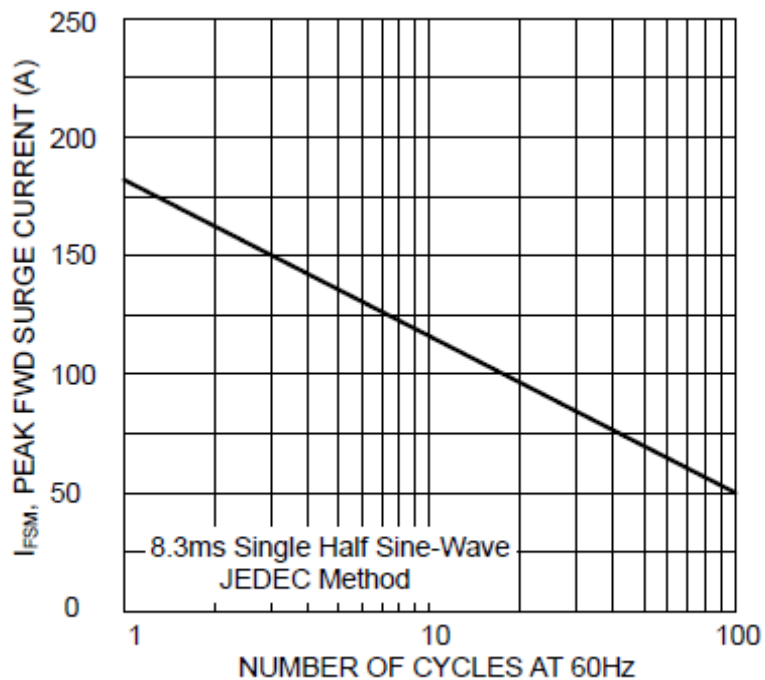


Fig.3 Max Non-Repetitive Peak Fwd Surge Current

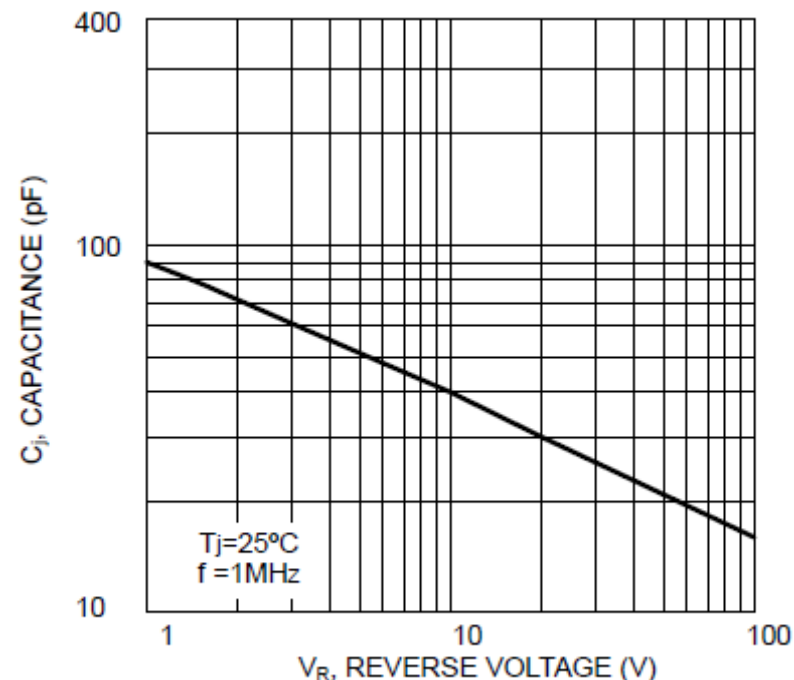


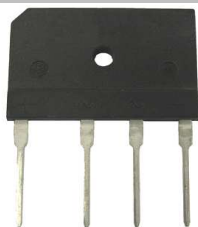
Fig.4 Typical Junction Capacitance per Element

**Single Inline Bridge Rectifier 6A  
(Glass Passivated)**

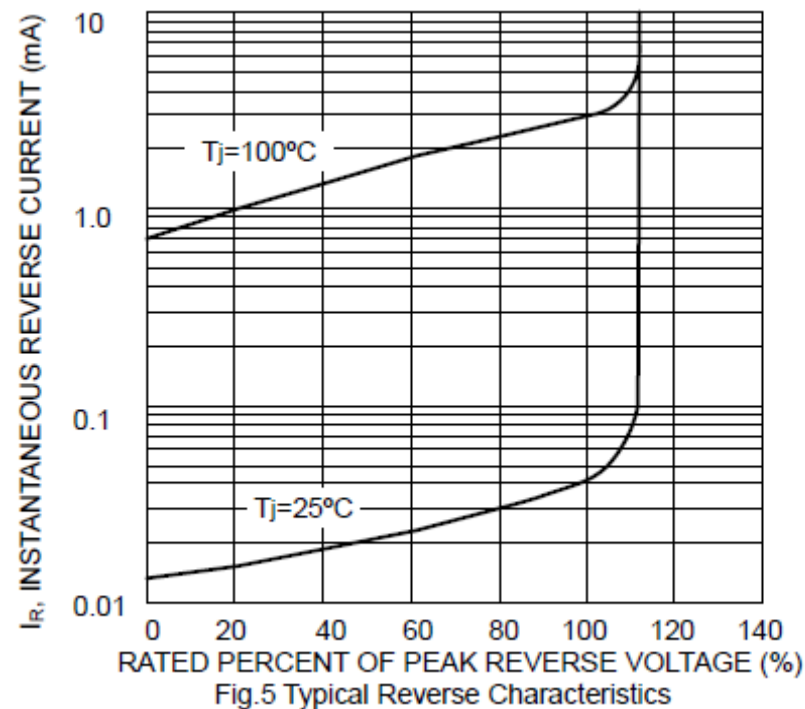
EDCON-Ser. **E14014**

International Serie: **GBJ6x**

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.05.2010
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Rating & Characteristics Curves (TA=25°C unless otherwise noted)



## Ordering Informations

EDCON Serie	International Type	Lead function	ROHS	Package
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<b>E14014</b>	<b>GBJ6x</b>	<b>LL</b>	<b>R</b>	<b>BX</b>
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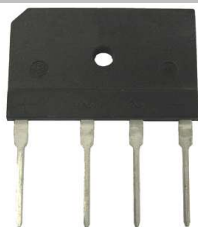
Look Voltage Code Table	<b>LL</b> = Long Lead	<b>R</b> = ROHS Conform	<b>BX</b> = Box Packing
	<b>L4</b> = Lead Length 4mm	<b>N</b> = NON ROHS Conform	

**Single Inline Bridge Rectifier 6A  
(Glass Passivated)**

EDCON-Ser. **E14014**

International Serie: **GBJ6x**

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Soldering Profile Curve

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



<b>Single Inline Bridge Rectifier 6A (Glass Passivated)</b>	
EDCON-Ser.	<b>E14014</b>
International Serie:	<b>GBJ6x</b>

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