

# 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

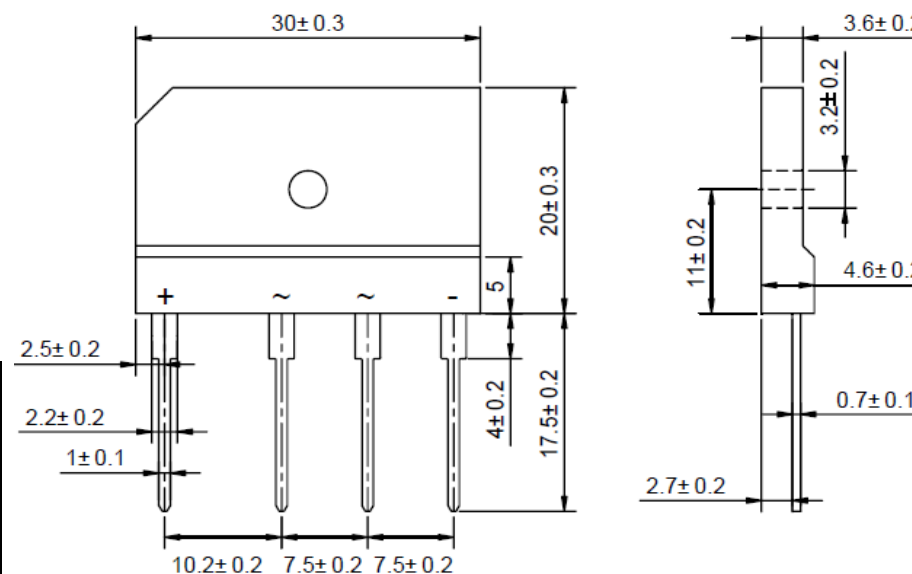
### Mechanical Data

- 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

	Sym bols	GBJ 20D	GBJ 20G	GBJ 20J	GBJ 20K	GBJ 20M		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)	20,0							Amps
Peak forward surge current 8,3ms single half sine-wave	IFSM	240							Amps
Rating for dusing (t<8,3ms)	I²t	240							A²sec
Maximum Thermal resistance per led (1)	RoJA	22,0							°C/W
	RoJC	1,5							
Operation Junction and storage temp.ran	Tj, Tstg	-55°C ~ +150°C							°C
Maximum Instantaneous Forward Voltage per Leg	Vf	1,1							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) Junction to ambient without heatsink (2) Junction to case with heatsink (3) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M6 screw.

### Single In-Line Bridge Rectifier 20A (Glass Passivated)

EDCON-Ser. **E14027**

International Serie: **GBJ20x**

# EDCON-COMPONENTS



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

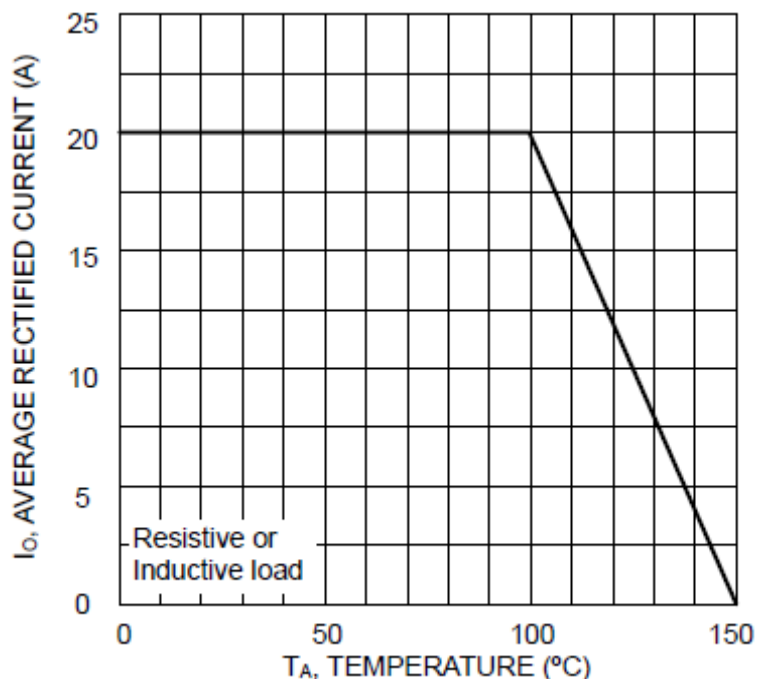


Fig.1 Forward Current Derating Curve

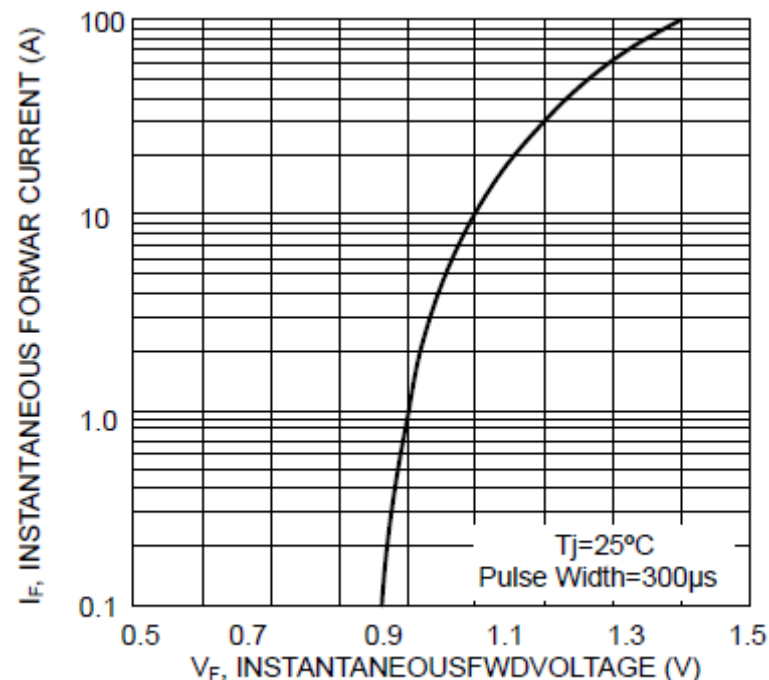


Fig.2 Typical Forward Characteristics, per element

**Single Inline Bridge Rectifier  
20A (Glass Passivated)**

EDCON-Ser. **E14027**

International Serie: **GBJ20x**

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)

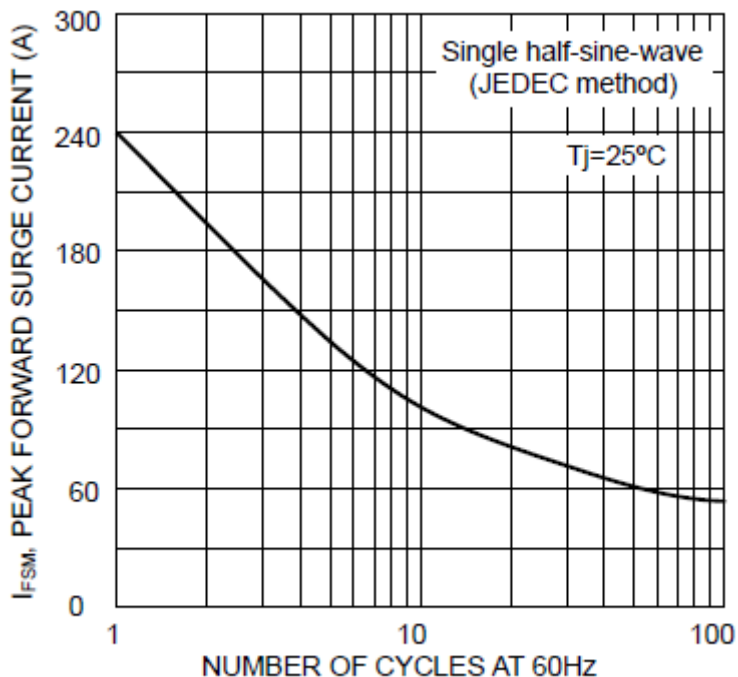


Fig.3 Maximum Non-Repetitive Surge Current

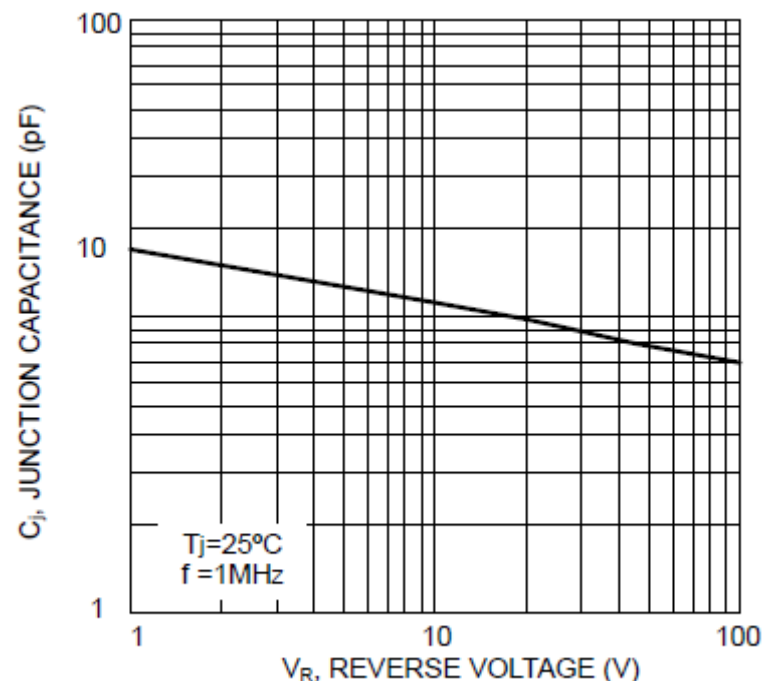


Fig.4 Typical Junction Capacitance

**Single Inline Bridge Rectifier  
20A (Glass Passivated)**

EDCON-Ser. **E14027**

International Serie: **GBJ20x**

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

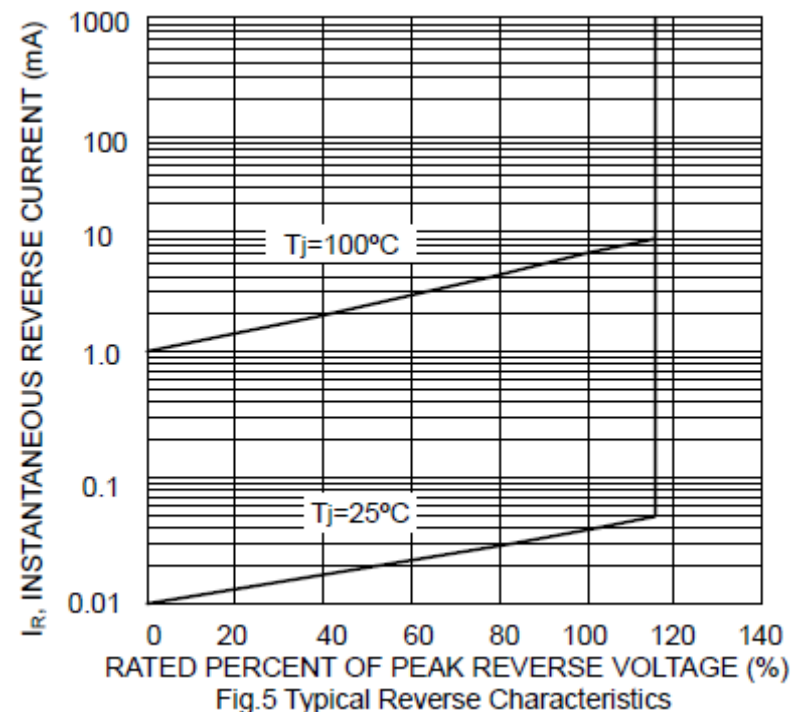
[www.edcon-components.com](http://www.edcon-components.com)

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

# EDCON-COMPONENTS



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



## Ordering Informations

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

<b>E14027</b>	<b>GBJ20x</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 Packing
	<b>L4</b> = Lead Length 4mm	<b>N</b> = NON ROHS Conform	

**Single Inline Bridge Rectifier  
20A (Glass Passivated)**

EDCON-Ser. **E14027**

International Serie: **GBJ20x**

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 20A (Glass Passivated)</b>	
EDCON-Ser.	<b>E14027</b>
International Serie:	<b>GBJ20x</b>

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