

Bridge Rectifiers

Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

• Package: 6KBJ

Molding compound meets UL 94 V-0 flammability

rating, RoHS-compliant

• **Terminals**: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Polarity: As marked on body

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAME	TER	SYMBOL	UNIT	GBJ15AA	GBJ15BA	GBJ15DA	GBJ15GA	GBJ15JA	GBJ15KA	GBJ15MA	
Device marking code				GBJ15AA	GBJ15BA	GBJ15DA	GBJ15GA	GBJ15JA	GBJ15KA	GBJ15MA	
Maximum Repetitive Peak Reverse Voltage		VRRM	V	50	100	200	400	600	800	1000	
Maximum RMS Voltage		VRMS	٧	35	70	140	280	420	560	700	
Maximum DC blocking Vo	Itage	VDC	V	50	100	200	400	600	800	1000	
Average rectified output With heatsink Tc =105°C		10		15.0							
current @60Hz sine wave, R-load	Without heatsink Ta =25°C	- IO	A	3.5							
Forward Surge Current (Non-repetitive) @8.3ms,Half-sine wave,1 cycle, Tj=25°C		- IFSM	А	280							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				560							
Current squared time @1ms≤t<8.3ms Tj=25°C,F	Rating of per diode	l ² t	A ² s	325							
Storage temperature		T _{stg}	့	-55 ~ + 150							
Junction temperature		Tj	°	-55 ~ + 150							
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5							
Mounting torque @Recommend torque: 5kg·cm		Tor	kg∙cm	8							

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ15AA	GBJ15BA	GBJ15DA	GBJ15GA	GBJ15JA	GBJ15KA	GBJ15MA
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=7.5A	1.0						
Maximum DC reverse current at rated DC blocking	g IR	μA	T _j =25°C	T _j =25°C 5						
voltage per diode			T _j =125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	75						

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

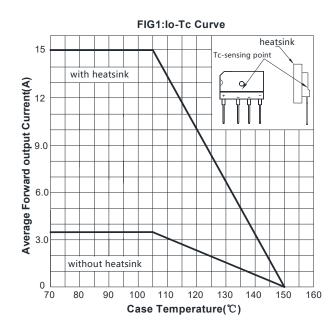
	PARAMETER	SYMBOL	UNIT	GBJ15AA	GBJ15BA	GBJ15DA	GBJ15GA	GBJ15JA	GBJ15KA	GBJ15MA
Thermal	Between junction and ambient, Without heatsink	R ₀ J-A	°C/W	18.0						
Resistance	Between junction and case, With heatsink	R ₀ J-C	C/vv	1.5						

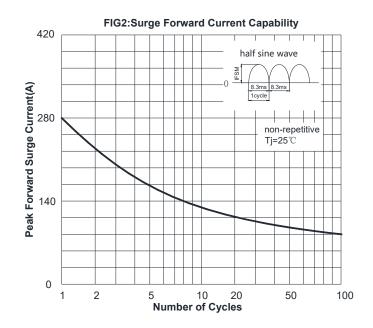
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

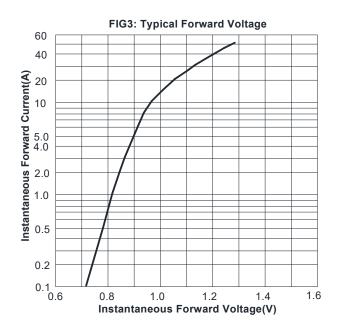
■Ordering Information (Example)

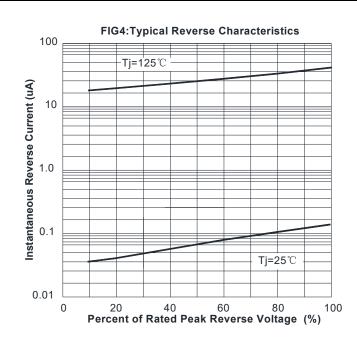
PREFERED P/N	RED P/N PACKING UNIT WEIGHT		MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJ15AA THRU GBJ15MA	B1	Approximate 5.67	15	750	1500	TUBE

■ Characteristics(Typical)

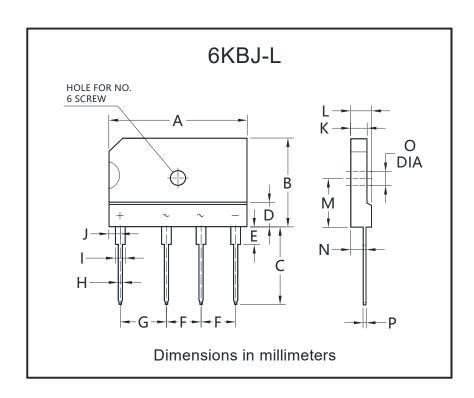








■ Outline Dimensions



6KBJ-L							
Dim	Min	Max					
Α	29.7	30.3					
В	19.7	20.3					
С	17.0	18.0					
D	5.3	6.3					
E	3.8	4.2					
F	7.3	7.7					
G	9.8	10.2					
Н	0.9	1.1					
I	2.0	2.4					
J	2.3	2.7					
K	3.4	3.8					
L	4.4	4.8					
М	10.8	11.2					
N	3.1	3.7					
0	3.1	3.4					
Р	0.35	0.65					



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