

Bridge Rectifiers

Features

- UL recognition, file #E230084
- Thin single in-line package
- Glass passivated chip junction
- 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 (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBJ2516A	
Device marking code			GBJ2516A	
Maximum Repetitive Peak Reverse Voltage	VRRM	٧	1600	
Maximum RMS Voltage	VRMS	V	1120	
Maximum DC blocking Voltage	VDC	V	1600	
Average rectified output Current @60Hz sine wave, R- With heatsink Tc =95°C	- IO	А	25.0	
load, Without heatsink Ta =25°C			3.5	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	IFSM	А	350	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C			700	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l ² t	A ² s	508	
Storage temperature	Tstg	°C	-55 ~ +150	
Junction temperature	Tj	°C	-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)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ2516A				
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=12.5A	1.1				
Maximum DC reverse current at rated DC blocking voltage			T _j =25℃	5				
per diode		μΑ	T _j =125°C	500				
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	95				

GBJ2516A

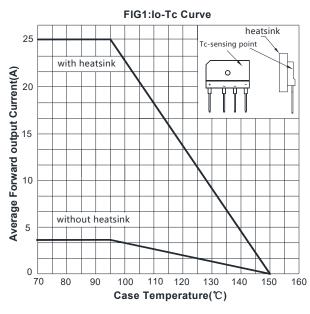
	PARAMETER	SYMBOL	UNIT	GBJ2516A
Thermal	Between junction and ambient, Without heatsink	KAJ-A	°C/W	18.0
	Between junction and case, With heatsink	R ₀ J-C	C/VV	1.0

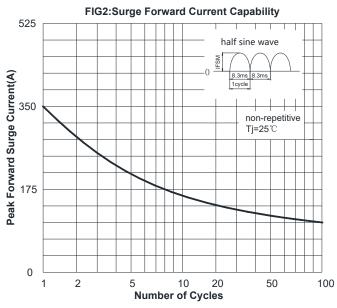
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

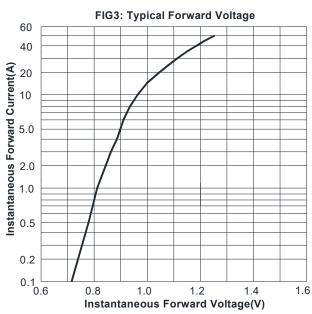
■Ordering Information (Example)

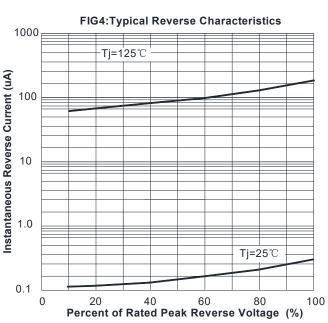
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJ2516A	B1	Approximate 6.5	15	750	1500	TUBE

■ Characteristics(Typical)





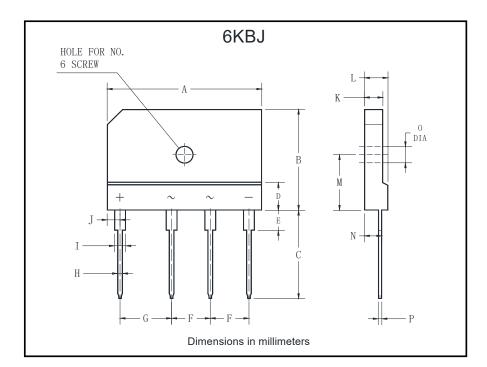








■ Outline Dimensions



6KBJ					
Dim	Min	Max			
Α	29.7	30.3			
В	19.7	20.3			
С	17.0	18.0			
D	4.8	5.8			
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	0.6	0.8			



GBJ2516A

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