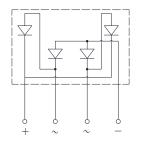




Super Fast Recovery Bridge Rectifiers





Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- 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 monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances 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)

■ waximum katings (1a-23 € offices officewise specified)						
PARAMETER		SYMBOL	UNIT	EGBJ1006		
Device marking code				EGBJ1006		
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	V	600		
Maximum RMS Voltage		V _{RMS}	V	420		
Maximum DC blocking Voltage		V _{DC}	V	600		
Average rectified output current @60Hz half sine wave, R-load	With heatsink Tc =125°C	I _O	А	10.0		
	Without heatsink Ta =25°C			3.2		
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		I _{FSM}	А	175		
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				350		
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A ² S	127		
Storage temperature		Tstg	℃	-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		

EGBJ1006

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	EGBJ1006
Maximum reverse recovery time	T_RR	ns	I _F =0.5A,I _R =1.0A, I _{RR} =0.25A	35
Maximum instantaneous forward voltage drop per diode	V_{F}	٧	I _{FM} =5.0A	1.7
Maximum DC reverse current at	I _R	μΑ	Tj =25℃	5
rated DC blocking voltage per diode			Tj =125°C	100
Typical junction capacitance Cj pF		Measured at 1MHz and Applied Reverse 54 Voltage of 4.0 V.D.C		

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

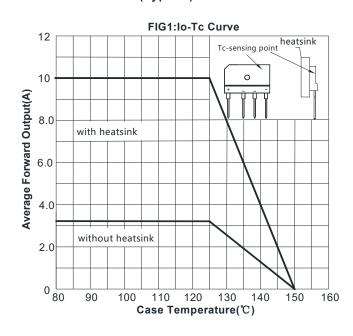
PARAMETER		SYMBOL	UNIT	EGBJ1006
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	°C/W	18.0
	Between junction and case, With heatsink	R _{θJ-C}		1.5

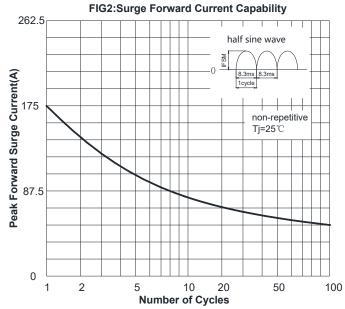
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
EGBJ1006	B1	Approximate 6.5	15	750	1500	TUBE

■ Characteristics (Typical)







EGBJ1006

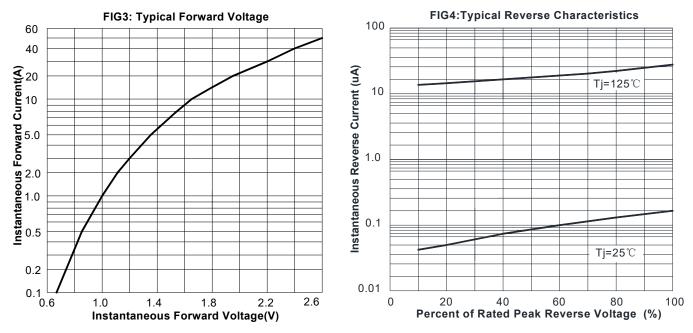
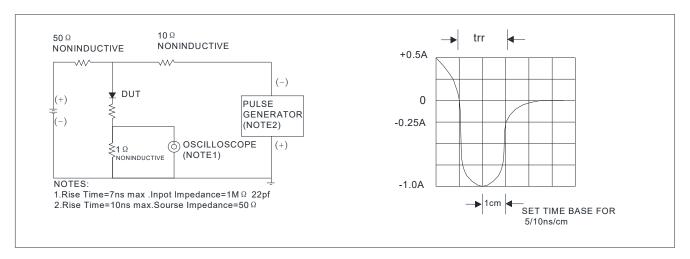


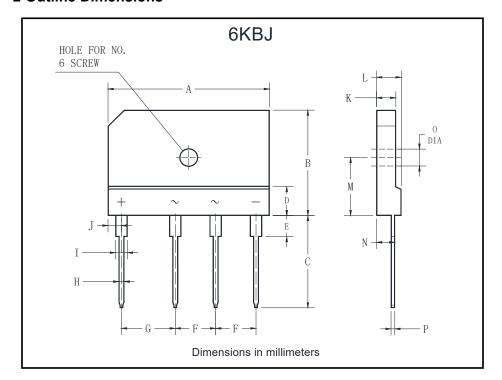
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time







■ 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		



EGBJ1006

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