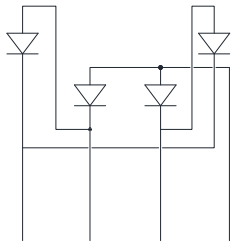
Low VF Bridge Rectifiers



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 f ᵀ M

■**Maximum Ratings** (T_a=25 Unless otherwise specified

	Without heatsink Ta=25 -			3.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25 -		I_{FSM}	A	400
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 -				800
Current squared time @1ms≤t≤8.3ms Tj=25 - , Rating of per diode		I^2t	A^2S	664
Storage temperature		T_{stg}	-	-55 ~ +150
Junction temperature		T_j	-	-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 T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJL2006
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=10A	0.92
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j =25 -	5
			T_j =125 -	200
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	197

■Thermal Characteristics T_a=25 Unless otherwise specified

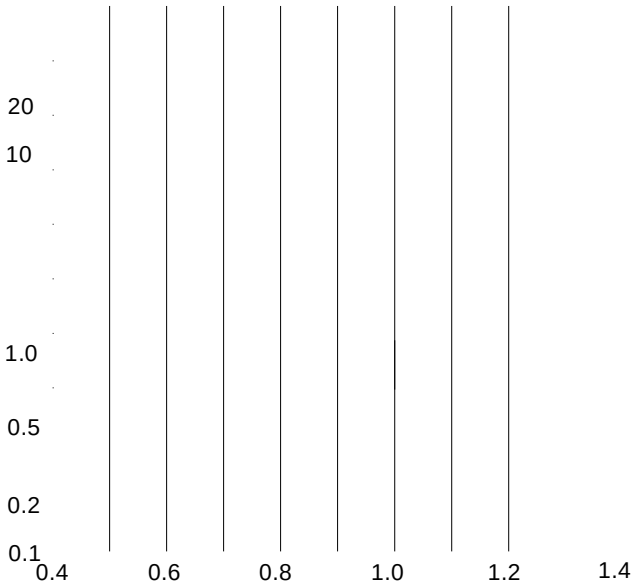
PARAMETER		SYMBOL	UNIT	GBJL2006
Typical Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	- /W	18
	Between junction and case, With heatsink	$R_{\theta J-C}$		1.5

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

FIG3: Typical Forward Voltage



■ Outline Dimensions

6KBJ		
Dim	Min	Max
A	29.7	30.3
B	19.7	20.3
C	17.0	18.0
D	4.8	5.8
E	3.8	4.2
F	7.3	7.7
G	9.8	10.2
H	0.9	1.1
I	2.0	2.4
J	2.3	2.7
K	3.4	3.8
L	4.4	4.8
M	10.8	11.2
N	3.1	3.7
O	3.1	3.4
P	0.6	0.8

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.