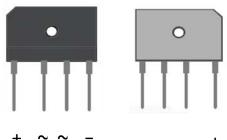
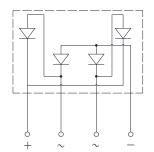




Low VF Bridge Rectifiers





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: PB

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

• 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	PB5008L	
Device marking code			PB5008L	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	800	
Maximum RMS Voltage	VRMS	V	560	
Maximum DC blocking Voltage	VDC	V	800	
Average rectified output Current With heatsink Tc =92°C	10		50.0	
@60Hz sine wave, R-load Without heatsink Ta =25°C	IO	Α	4.5	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	IFSM	А	500	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C			1000	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l²t	A ² s	1037.5	
Storage temperature	T _{stg}	ů	-55 ~ +150	
Junction temperature	Tj	°C	-55 ~ +150	
Dielectric strength @ terminals to case, AC 1 minute	V _{dis}	KV	2.5	
Mounting torque @recommend torque: 5kg·cm	T _{or}	kg·cm	8	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	PB5008L
Maximum instantaneous forward voltage drop per diode	VE	V	IFM=25.0A	0.97
Maximum DC reverse current at rated DC blocking voltage per diode	IR	μΑ	Tj =25°C	5
	יול		T _j =125°C	100
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	280



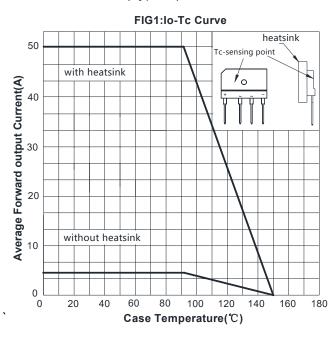
PARAMETER		SYMBOL	UNIT	PB5008L
Thermal	Between junction and ambient, Without heatsink	$R_{ heta J-A}$	°C/W	18.0
Resistance	Between junction and case, With heatsink	R _{θJ-C}		0.6

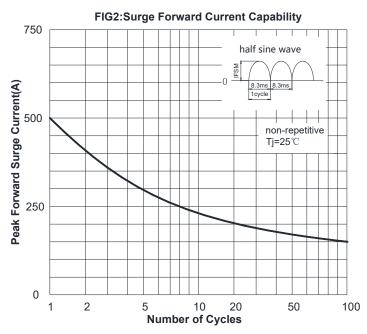
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

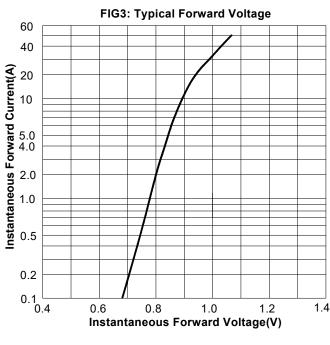
■Ordering Information (Example)

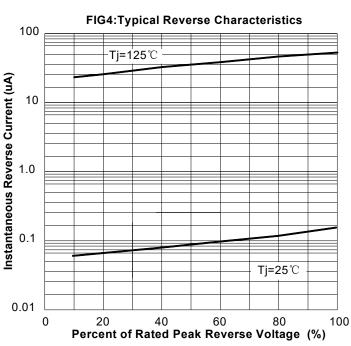
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
PB5008L	B1	Approximate 7.5	15	750	1500	TUBE

■ Characteristics (Typical)





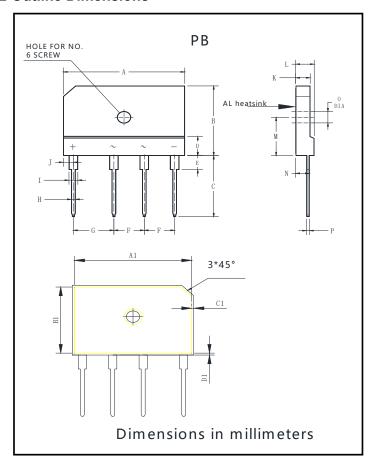








■ Outline Dimensions



РВ					
Dim	Min	Max			
Α	29.7	30.3			
В	19.7	20.3			
С	17.0	18.0			
D	4.8	5.8			
Е	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			
A1	28.75	29.15			
B1	18.75	19.15			
C1	0.3	0.7			
D1	0.3	0.7			



PB5008L

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.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com, or consult your nearest Yangjie's sales office for further assistance.