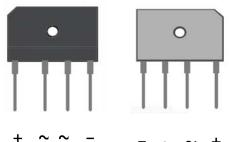
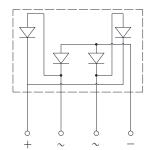




Low VF Bridge Rectifiers





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 (Ta=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 Average rectified output Tc =92°C	lo.	^	50.0
current Without heatsink Ta =25°C	lO	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}	°C	-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		Tj =25°C	5	
	ıK.	μA	T _j =125°C	100
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	280



■Thermal Characteristics $(T_a=25^{\circ}\mathbb{C} \text{ Unless otherwise specified})$

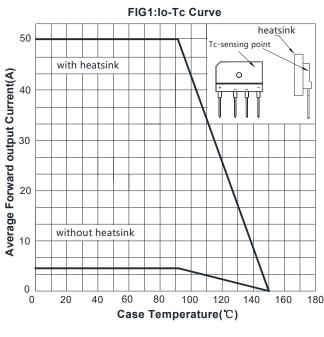
PARAMETER		SYMBOL	UNIT	PB5008L
Thermal	Between junction and ambient, Without heatsink	R _{0J-A}	18.0	
Resistance	Between junction and case, With heatsink	R _{0J-C}	°C/W	0.6

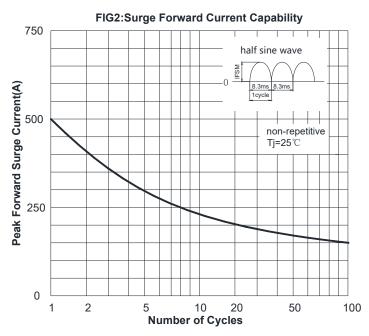
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

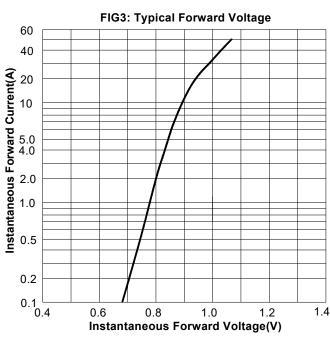
■Ordering Information (Example)

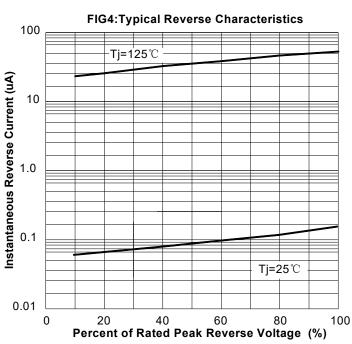
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
PB5008L	B1	Approximate 7.5	15	750	1500	TUBE

■ Characteristics (Typical)





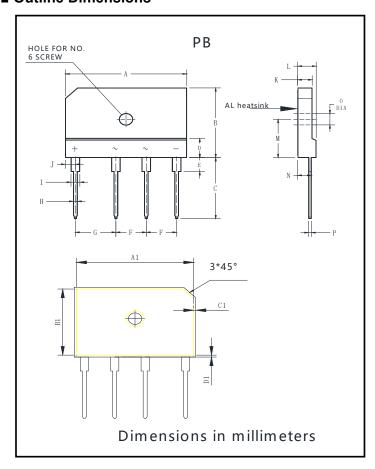








■ Outline Dimensions



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

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