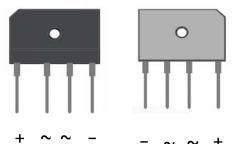
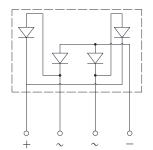




Low VF Bridge Rectifiers





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	PB5006L	
Device marking code			PB5006L	
Maximum Repetitive Peak Reverse Voltage	VRRM	٧	600	
Maximum RMS Voltage	VRMS	٧	420	
Maximum DC blocking Voltage	VDC	V	600	
Average rectified output Current With heatsink	· lo	^	50.0	
@60Hz sine wave, R-load Without heatsink Ta =25°C	10	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}	°	-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	PB5006L		
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=25.0A	0.97		
Maximum DC reverse current at rated DC blocking voltage per diode	IR	μΑ	T _j =25°C	5		
			T _j =125°C	100		
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C			



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

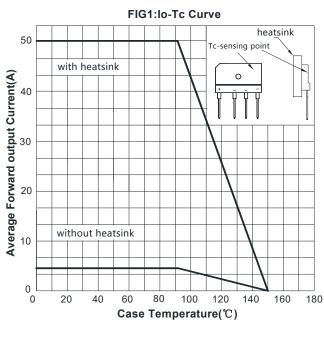
PARAMETER		SYMBOL	UNIT	PB5006L
Thermal	Between junction and ambient, Without heatsink	$R_{ heta J-A}$	°C/W	18.0
	Between junction and case, With heatsink	R _{θJ-C}		0.6

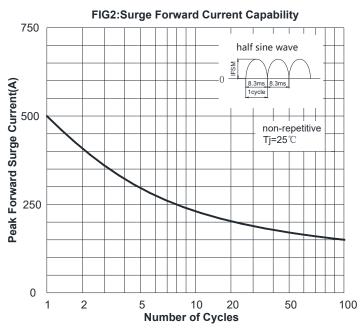
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

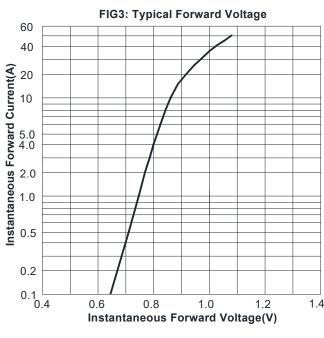
■Ordering Information (Example)

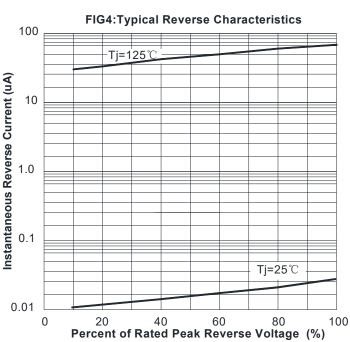
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
PB5006L	B1	Approximate 7.5	15	750	1500	TUBE

■ Characteristics (Typical)





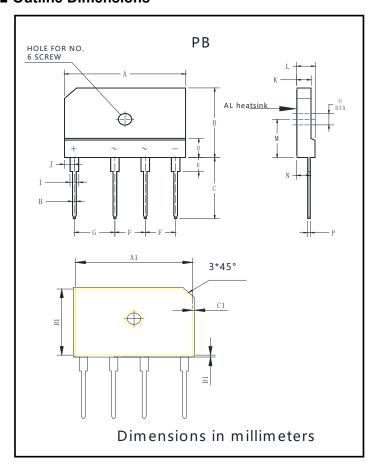








■ Outline Dimensions



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



PB5006L

Disclaimer

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