



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, -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 With heatsink Tc =92°C	IO	A	50.0
@60Hz sine wave, R-load Without heatsink Ta =25°C			4.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		A	500
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM		1000
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l ² t	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 (T_a =25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	PB5008L
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=25.0A	0.97
Maximum DC reverse current	IR		Tj =25℃	5
at rated DC blocking voltage per diode	чĸ	μA	Tj =125°C	100
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	280
1/4				



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

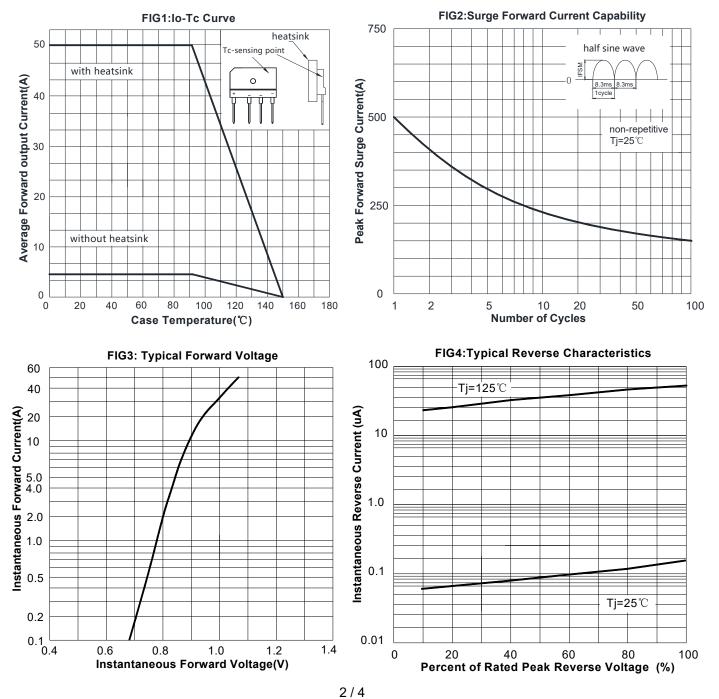
PARAMETER		SYMBOL UNI		PB5008L
Thermal	Between junction and ambient, Without heatsink	R _{0J-A}	18.0	
Resistance	Between junction and case, With heatsink	$R_{ ext{ hetaJ-C}}$	°C/W	0.6

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

■Ordering Information (Example)

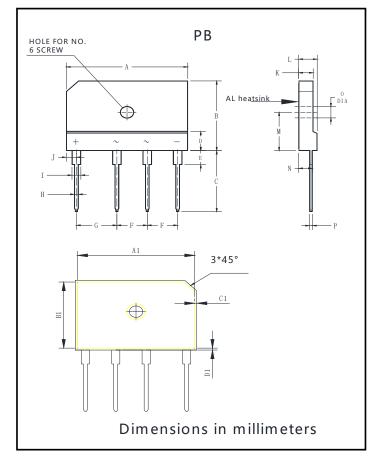
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
PB5008L	B1	Approximate 7.5	15	750	1500	TUBE

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				
E	3.8	4.2				
F	7.3	7.7				
G	9.8	10.2				
Н	0.9	1.1				
	2.0	2.4				
J	2.3	2.7				
К	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				

Shanghai Sunco Electronics Co., Ltd



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