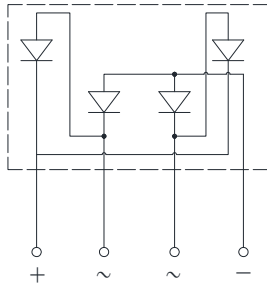
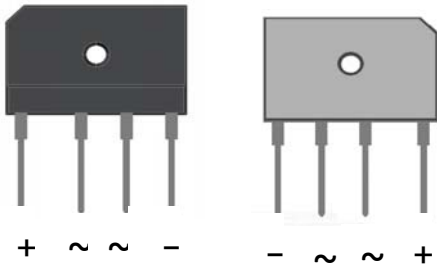


Bridge Rectifiers



Features

- UL recognition, file #E230084
- 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
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	PB50005	PB5001	PB5002	PB5004	PB5006	PB5008	PB5010
Device marking code			PB50005	PB5001	PB5002	PB5004	PB5006	PB5008	PB5010
Repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load,	With heatsink $T_c=84^\circ\text{C}$	I_o	A	50.0 ⁽¹⁾					
	Without heatsink $T_a=25^\circ\text{C}$			4.5					
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, $T_j=25^\circ\text{C}$	I_{FSM}	A	450						
Current squared time @1ms≤t≤8.3ms $T_j=25^\circ\text{C}$, Rating of per diode	I^2t	A ² s	840						
Storage temperature	T_{stg}	°C	-55 ~+150						
Junction temperature	T_j	°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 ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	PB50005	PB5001	PB5002	PB5004	PB5006	PB5008	PB5010
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=25.0\text{A}$	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM}	μA	$V_{RM}=V_{RRM}$	5						



PB50005 THRU PB5010

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

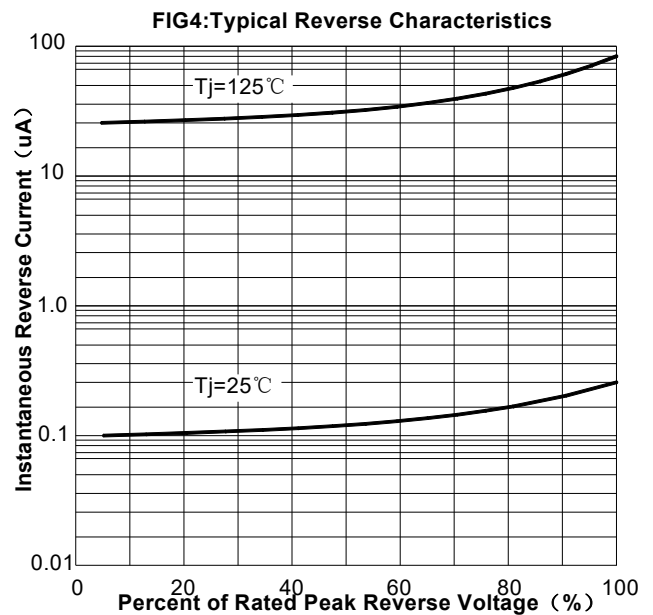
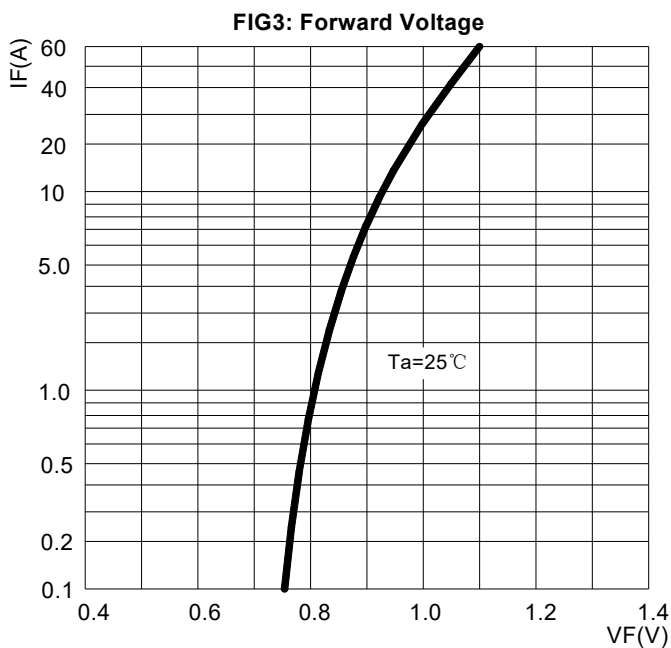
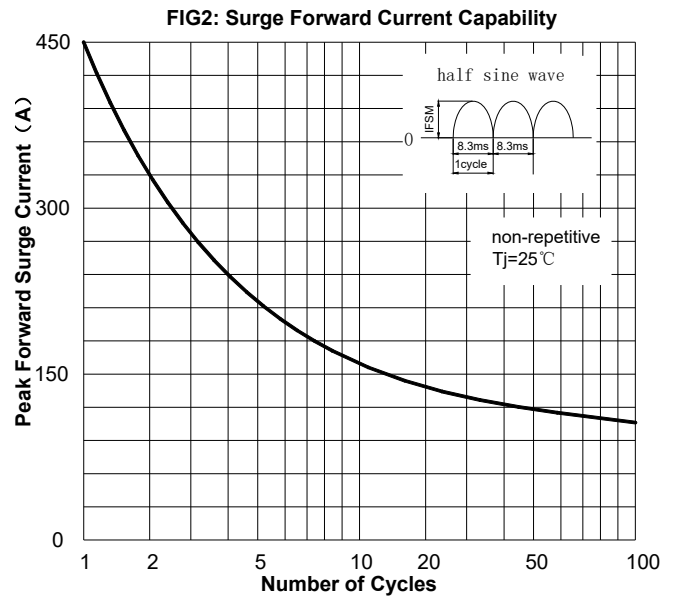
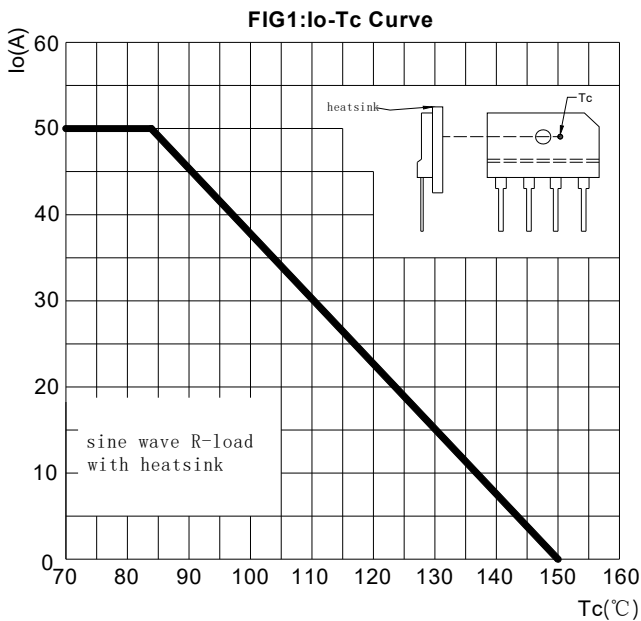
PARAMETER		SYMBOL	UNIT	PB50005	PB5001	PB5002	PB5004	PB5006	PB5008	PB5010
Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJA}	°C/W	18.0						
	Between junction and case, With heatsink	R _{θJC}		0.70 ⁽¹⁾						

Note1: Unit Mounted on 100*50*2mm aluminum Plate Heatsink

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
PB50005 THRU PB5010	B1	Approximate 7.5	15	750	1500	TUBE

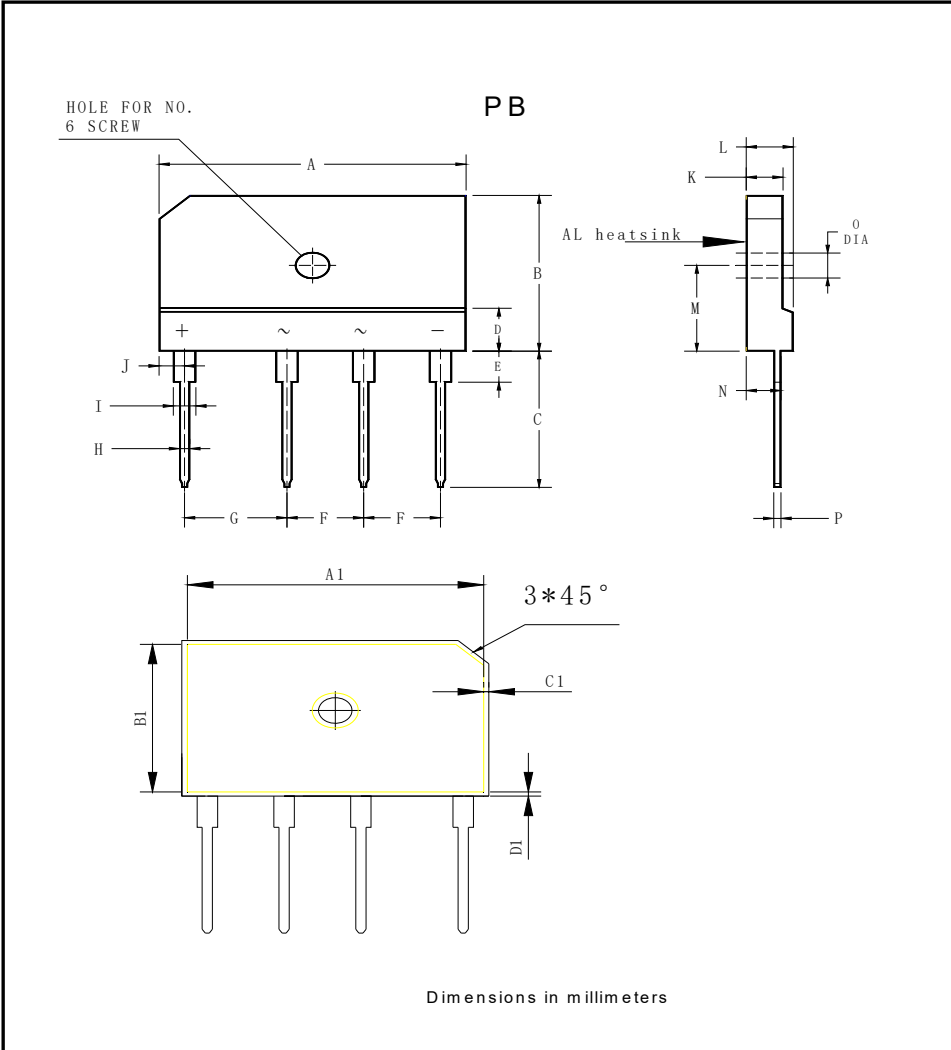
■ Characteristics (Typical)





PB50005 THRU PB5010

■ Outline Dimensions



Dim	PB	
	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
A1	28.75	29.15
B1	18.75	19.15
C1	0.3	0.7
D1	0.3	0.7



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