

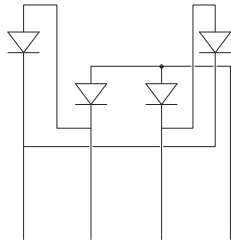
## Bridge Rectifiers

### 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.



With heatsink  
 $T_c = 110$

### 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

IO            A

25.0

wave, R-load,

	Without heatsink					
	$T_a = 25$					3.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j = 25$		IFSM	A			350
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j = 25$						700
Current squared time @1ms t 8.3ms $T_j = 25$ , Rating of per diode		$I^2t$	$A^2s$			508
Storage temperature		$T_{stg}$				-55 ~ +150
Junction temperature		$T_j$				-55 ~ +150
Dielectric strength @ Terminals to case, AC 1 minute		$V_{dis}$	KV			2.5
Mounting torque @Recommend torque 5kg cm		Tor	kg cm			8

### Electrical Characteristics $T_a = 25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	PB25005	PB2501	PB2502	PB2504	PB2506	PB2508	PB2510
Maximum instantaneous forward voltage drop per diode	$V_F$	V	$I_{FM} = 12.5A$				1.0			
Maximum DC reverse current at rated DC blocking voltage per diode	IR	$\mu A$	$T_j = 25$				5			
			$T_j = 125$				100			
Typical junction capacitance	$C_j$	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C				130			



# PB25005 THRU PB2510

## Thermal Characteristics $T_a=25$ Unless otherwise specified

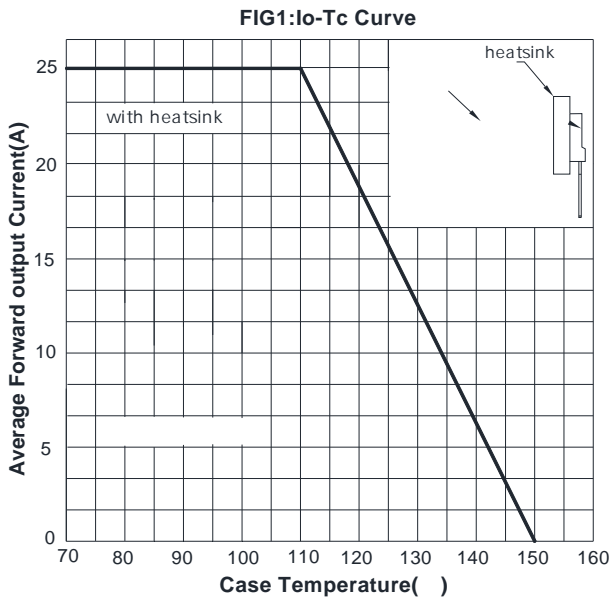
PARAMETER		SYMBOL	UNIT	PB25005	PB2501	PB2502	PB2504	PB2506	PB2508	PB2510
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{J-A}$	/W	18						
	Between junction and case, With heatsink	$R_{J-C}$		0.8						

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

## Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
PB25005 THRU PB2510	B1	Approximate 7.5	15	750	1500	TUBE

## Characteristics (Typical)





# PB25005 THRU PB2510`

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## Outline Dimensions

PB		
Dim	Min	Max
A	29.7	30.3
B	19.7	20.3
C	17.0	18.0



## PB25005 THRU PB2510`

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### Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with