

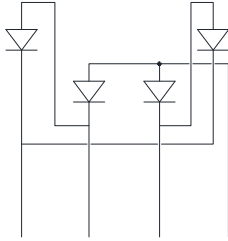
## Super Fast Recovery Bridge Rectifiers

### 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

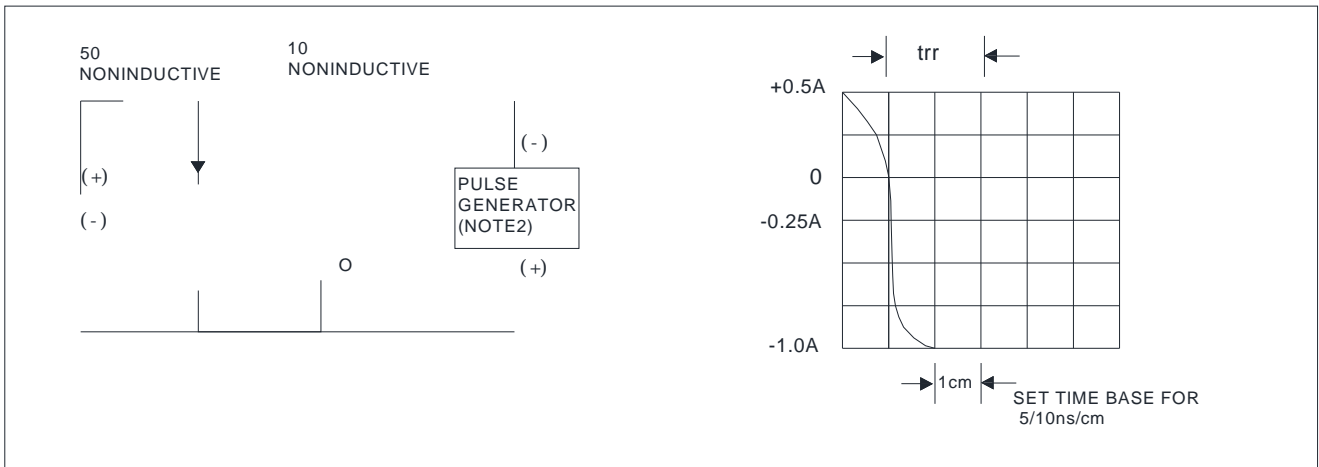
**Polarity:** As marked on body

### Maximum Ratings (T<sub>a</sub>=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	EPB2506	
Device marking code			EPB2506	
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	600	
Maximum RMS Voltage	V <sub>RMS</sub>	V	420	
Maximum DC blocking Voltage	V <sub>DC</sub>	V	600	
Average rectified output current @60Hz sine wave, R-load,	With heatsink T <sub>c</sub> =110	I <sub>o</sub>	A	25.0
	Without heatsink T <sub>a</sub> =25			3.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T <sub>j</sub> =25	I <sub>FSM</sub>	A	220	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T <sub>j</sub> =25			440	
Current squared time @1ms t 8.3ms T <sub>j</sub> =25, Rating of per diode	I <sup>2</sup> t	A <sup>2</sup> s	201	
Storage temperature	T <sub>stg</sub>		-55 ~ +150	
Junction temperature	T <sub>j</sub>		-55 ~ +150	
Dielectric strength @ Terminals to case, AC 1 minute	V <sub>dis</sub>	KV	2.5	
Mounting torque @Recommend torque 5kg cm	T <sub>or</sub>	kg cm	8	



FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





Outline Dimensions

PB		
Dim	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

Dimensions in millime

P

A  
h  
A

I

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