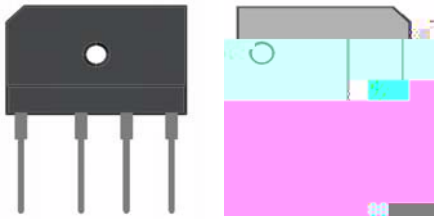




Bridge Rectifiers



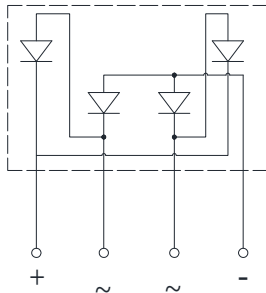
Features

- 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 purp p ' ~ ±2wÖ• À 0 0 0 3 p À • 0 Ð À 60

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PARAMETER		SYMBOL	UNIT	PB35005	PB3501	PB3502	PB3504	PB3506	PB3508	PB3510
Device marking code				PB35005	PB3501	PB3502	PB3504	PB3506	PB3508	PB3510
Maximum Repetitive Peak Reverse Voltage		VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage		VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage		VDC	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load,	With heatsink Tc =100	IO	A	35.0						
	Without heatsink Ta =25			4.2						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		IFSM	A	450						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				900						
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode		I²t	A²s	840						
Storage temperature		Tstg		-55 ~ +150						
Junction temperature		Tj		-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5						
Mounting torque @Recommend torque 5kg cm		Tor	kg cm	8						

■Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	PB35005	PB3501	PB3502	PB3504	PB3506	PB3508	PB3510
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=17.5A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	IR	µA	Tj=25	5j ±125						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	175						



PB35005 THRU PB3510

■ Thermal Characteristics $T_a=25$ Unless otherwise specified

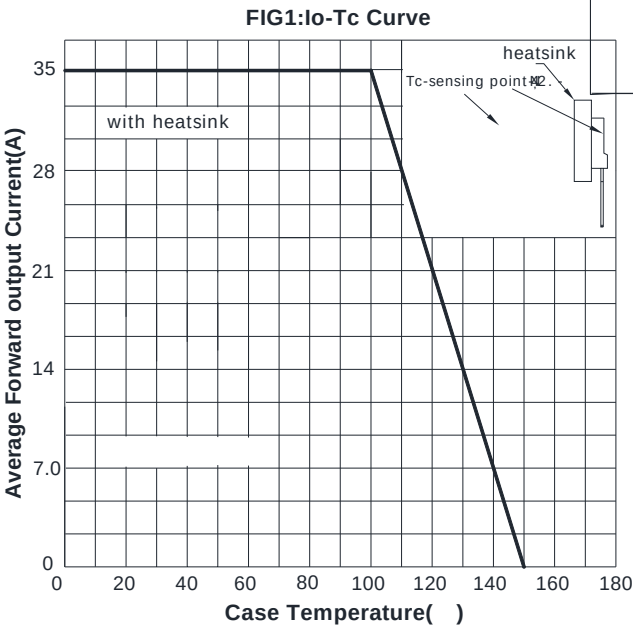
PARAMETER		SYMBOL	UNIT	PB35005	PB3501	PB3502	PB3504	PB3506	PB3508	PB3510
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W	18						
	Between junction and case, With heatsink	$R_{\theta J-C}$								

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)
PB35005 THRU PB3510	B1	Approximate 7.5

■ Characteristics (Typical)





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