



Bridge Rectifiers



- UL recognition, file #E230084
- Suitable for printed circuit board or chassis mounti
- Compact construction
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

The BR series of single phase rectifier bridge consists of four silicon junctions connected as a full bridge. These devices are intended for general use in industrial and consumer equipment.

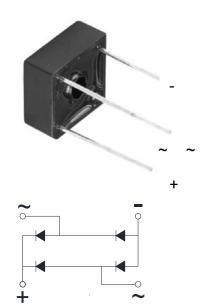
Mechanical Date

• Package: KBPC1

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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	BR3005	BR301	BR302	BR304	BR306	BR308	BR310
Device marking code			BR 3005	BR 301	BR 302	BR 304	BR 306	BR 308	BR 310
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, T _a =40°C	Ю	Α	3.0						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, T _a =25°C	IFSM	Α	45						
Current Squared Time @1ms≤t<8.3ms Tj=25℃, Rating of per diode	l ² t	A ² S	8.5						
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	BR3005	BR 301	BR 302	BR 304	BR 306	BR 308	BR 310
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=1.5A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM				10			

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

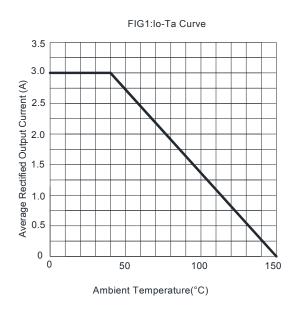
P.	ARAMETER	SYMBOL	UNIT	BR 3005	BR 301	BR 302	BR 304	BR 306	BR 308	BR 310
Thermal Resistance	Between junction and ambient	RøJ-A	°C/W				18			

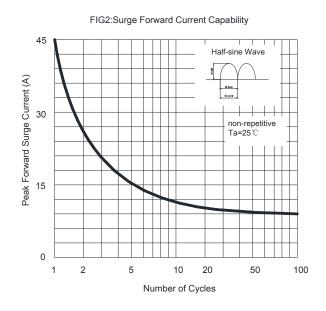
BR3005 THRU BR310

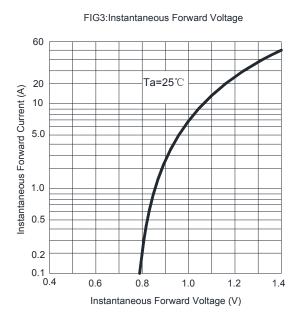
■Ordering Information (Example)

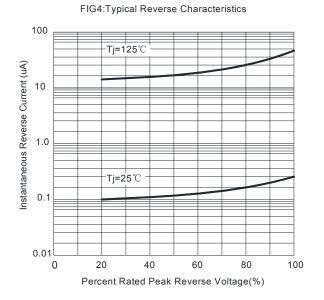
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
BR3005~BR310	A1	Approximate 2.5	200	200	2000	Paper Box	

■ Characteristics (Typical)



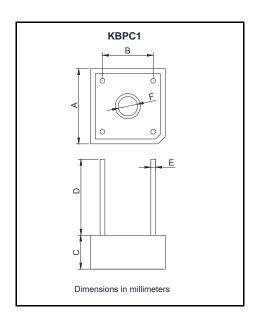






BR3005 THRU BR310

■ Outline Dimensions



KBPC1							
Dim	Min	Max					
Α	14.7	15.7					
В	10.3	11.3					
С	6.35	7.6					
D	15.0	1					
E	0.74	0.82					
F	3.8	4.2					

BR3005 THRU BR310

Disclaimer

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