

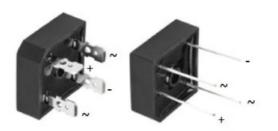
Bridge Rectifiers

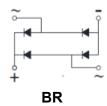
Features

- Low thermal resistance;
- Glass Passivated chip junction;
- High Surge current capability;
- •Molding compound meets UL 94 V-0 flammability rating, RoHScompliant

Typical Applications

•General purpose use in AC/DC bridge full wave rectification for Server、Frequency converter、Industrial power supply.





Mechanical Data

•Case: BR

•Terminals: Plated leads solderable per MIL-STD-750, Method 2026;

•High temperature soldering guaranteed: Solder Dip

260°C,10seconds;

Polarity: As marked on body;

Absolute Maximum Ratings (T _A =25°C unless otherwise noted)									
Parameter	Symbol	BR35 005	BR35 01	BR35 02	BR35 04	BR35 06	BR35 08	BR35 10	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average rectified output current@60Hz sine wave, R-load, Tc =75°C	lo	35				Α			
Forward Surge Current (Non-repetitive)@8.3ms, Half-sine wave,1 cycle, Tj=25°C	IFSM	400				Α			
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I2t	664			A2S				
Dielectric strength@ Terminals to case, AC 1 minute	Vdis	2.5			KV				
Storage temperature	Tstg	-55 ~ +150			°C				
Junction temperature	Tj	-55 ~ + 150			°C				

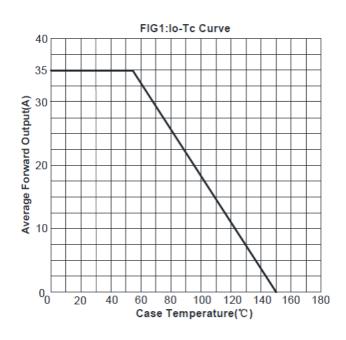


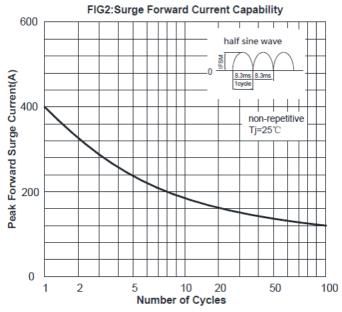
Thermal Characteristics					
Parameter	Symbol	Value	Unit		
Between junction and case, With heatsink	RθJ-C	1.6	°C/W		

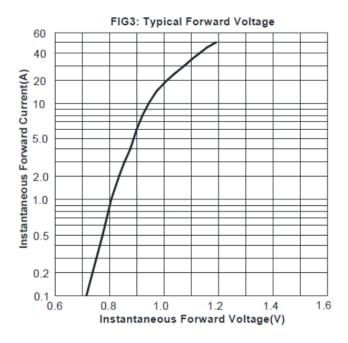
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

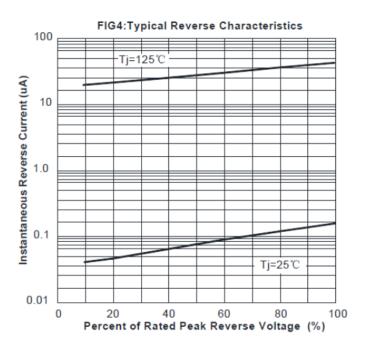
Electrical Characteristics (TA = 25°C unless otherwise noted)										
Parameter	Test condition	Symbol	BR35 005	BR35 01	BR35 02	BR35 04	BR35 06	BR35 08	BR35 10	UNIT
Maximum instantaneous forward voltage drop per diode	IFM=17.5A	VF				1.1				>
Maximum DC reverse current at	Tj =25°C	lR	5			μA				
rated DC blocking voltage per diode	T _j =125°C		100			μA				
Typical junction capacitance	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	G	110			рF				

<u>Typical Characteristics Curves</u> (TA = 25°C unless otherwise noted)



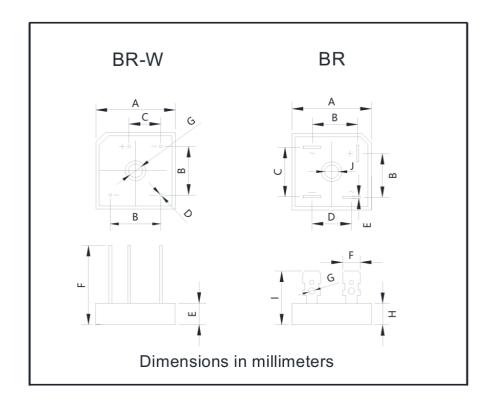






Outline Dimensions

(Unit: millimeters)



BR-W				
Dim	Min	Max		
Α	28.2	28.8		
В	17.1	19.1		
С	10.4	12.4		
D	0.95	1.05		
E	10.8	11.2		
F	30	1		
G	4.5	5.5		

BR				
Dim	Min	Max		
Α	28.2	28.8		
В	15.3	17.3		
С	17.1	19.1		
D	13.2	15.2		
Е	0.75	0.85		
F	6.2	6.4		
G	2.3	2.5		
Н	10.8	11.2		
I	19	/		
J	4.5	5.5		

Revision History

Document Version	Date of release	Discroption of changes
Rev.A	2021/3/18	Released Datasheet



BR35005(W) thru BR3510(W)

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