

NINGBO KLS ELECTRONIC CO.,LTD.

BR50005W THRU BR5010W

Bridge Rectifiers





- UL recognition, file #E230084
 Universal 3-way terminals: snap-on, wire wrap-around, or PCB mounting
- •High surge current capability
- •Low thermal resistance
- •Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, home appliances, office equipment, industrial automation applications.

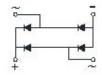
Mechanical Data

●Package:BR-W

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

●Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102 Suffix letter "W" added to indicate wire leads(e.g. BR5010W).





■ Maximum Ratings (Ta=25°C Unless otherwise specified)

				DD=004:::	DD=000:::	DD = 00 (****	DD = 0.00:	DD=000:	DD = 0.4.0
PARAMETER	SYMBOL	UNIT	BR50005W	BR5001W	BR5002W	BR5004W	BR5006W	BR5008W	BR5010W
Device marking code									
Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink, Tc=55℃	Ю	А	50						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, Ta=25℃	IFSM	А	500						
Current Squared Time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	I ² t	A ² S	1040						
Storage Temperature	T _{stg}	°	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						
Dielectric Strength, Terminals to case, AC 1 minute	V _{dis}	KV	2.5						
Mounting Torque	TOR	kg∙cm	10						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	BR50005W	BR5001W	BR5002W	BR5004W	BR5006W	BR5008W	BR5010W
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=25A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	10						

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

P.A	RAMETER	SYMBOL	UNIT	BR50005W	BR5001W	BR5002W	BR5004W	BR5006W	BR5008W	BR5010W
Thermal Resistance	Between junction and case, With heatsink	$R \theta J-C$	°C/W	1.2						

■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BR50005W~BR5010W	A1	Approximate 16.5	50	50	500	Paper Box

■ Characteristics (Typical)

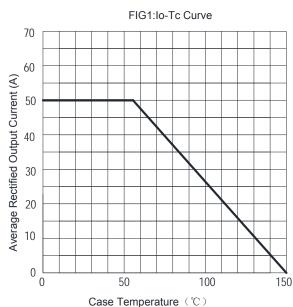


FIG3:Instantaneous Forward Voltage

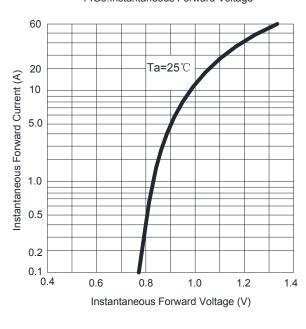


FIG2:Surge Forward Current Capability

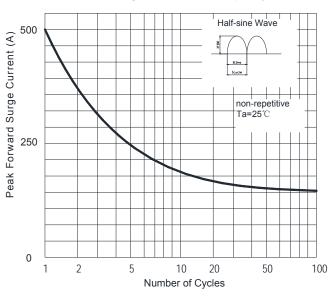
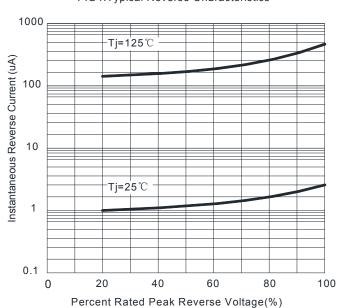


FIG4:Typical Reverse Characteristics



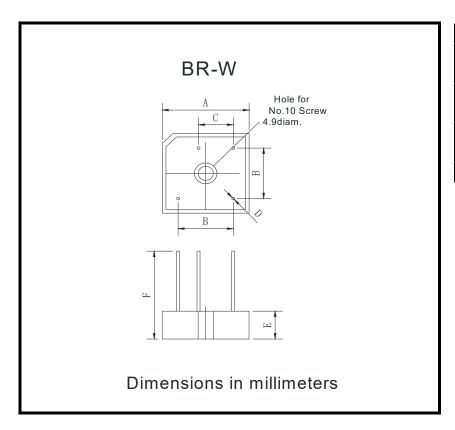
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■ Outline Dimensions

BR50005W THRU BR5010W



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			
Е	10.8	11.2			
F	30	1			

BR50005W THRU BR5010W

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