

NINGBO KLS ELECTRONIC CO.,LTD.

BR35005 THRU BR3510

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

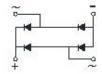
●Package: BR

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. BR3510W).





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

PARAMETER	SYMBOL	UNIT	BR35005	BR3501	BR3502	BR3504	BR3506	BR3508	BR3510
Device marking code									
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink, Tc=55℃	lO	А	35						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, T _a =25℃	IFSM	А	400						
Current Squared Time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	l ² t	A ² S	660						
Storage Temperature	T _{stg}	$^{\circ}$	-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	BR35005	BR3501	BR3502	BR3504	BR3506	BR3508	BR3510
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=17.5A				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)

PARAMETER		SYMBOL	UNIT	BR35005	BR3501	BR3502	BR3504	BR3506	BR3508	BR3510
Thermal Resistance	Between junction and case, With heatsink	R ₀ J-C	°C/W	1.5						

■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BR35005~BR3510	A1	Approximate 18.6	50	50	500	Paper Box

■ Characteristics (Typical)

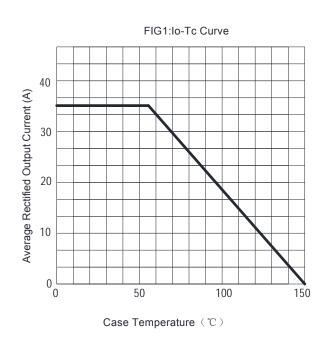


FIG2:Surge Forward Current Capability

450

Half-sine Wave

Ta=25°C

Number of Cycles

FIG3:Instantaneous Forward Voltage

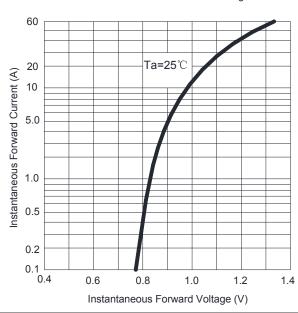
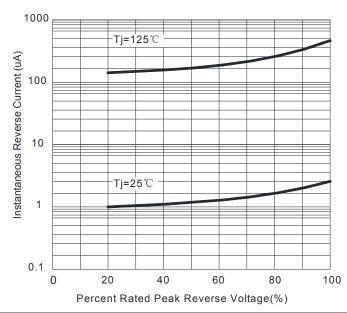
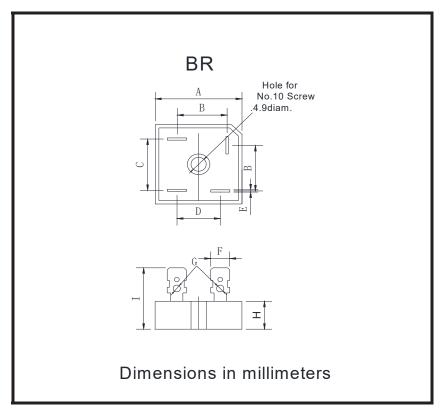


FIG4:Typical Reverse Characteristics



BR35005 THRU BR3510

■ Outline Dimensions



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	1				

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