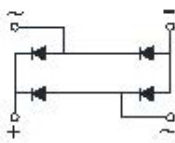


BR15005 THRU BR1510

Bridge Rectifiers

RoHS
COMPLIANT



Features

- 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.BR1510W).

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

PARAMETER	SYMBOL	UNIT	BR15005	BR1501	BR1502	BR1504	BR1506	BR1508	BR1510
Device marking code									
Repetitive Peak Reverse Voltage	V _{R_{RM}}	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink, T _c =55°C	I _o	A	15						
Surge(Non-repetitive)Forward Current @60Hz Half-sine Wave, 1 cycle, T _a =25°C	I _{FSM}	A	300						
Current Squared Time @1ms≤t≤8.3ms T _j =25°C, Rating of per diode	I ² t	A ² S	375						
Storage Temperature	T _{stg}	°C	-55 ~+150						
Junction Temperature	T _j	°C	-55 ~+150						
Dielectric Strength, Terminals to case, AC 1 minute	V _{dis}	KV	2.5						
Mounting Torque	T _{OR}	N·m	2.0						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	BR15005	BR1501	BR1502	BR1504	BR1506	BR1508	BR1510
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =7.5A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I _{R_{RM}}	μA	V _{RM} =V _{R_{RM}}	10						

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

PARAMETER	SYMBOL	UNIT	BR15005	BR1501	BR1502	BR1504	BR1506	BR1508	BR1510
Thermal Resistance Between junction and case, With heatsink	R _{θJ-C}	°C/W	3.3						

BR15005 THRU BR1510

■ **Ordering Information (Example)**

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BR15005~BR1510	A1	Approximate 18.6	50	50	500	Paper Box

■ **Characteristics (Typical)**

FIG1:Io-Tc Curve

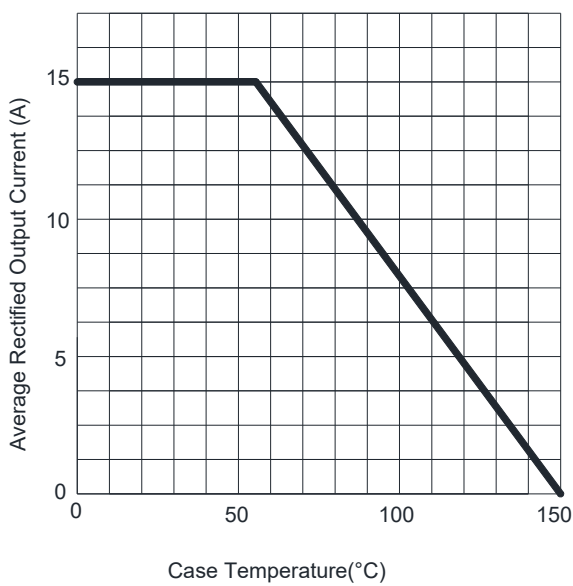


FIG2:Surge Forward Current Capability

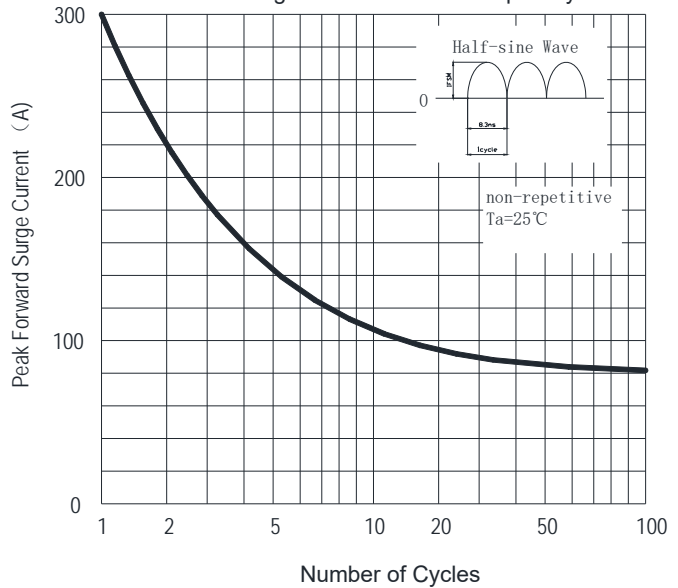


FIG3:Instantaneous Forward Voltage

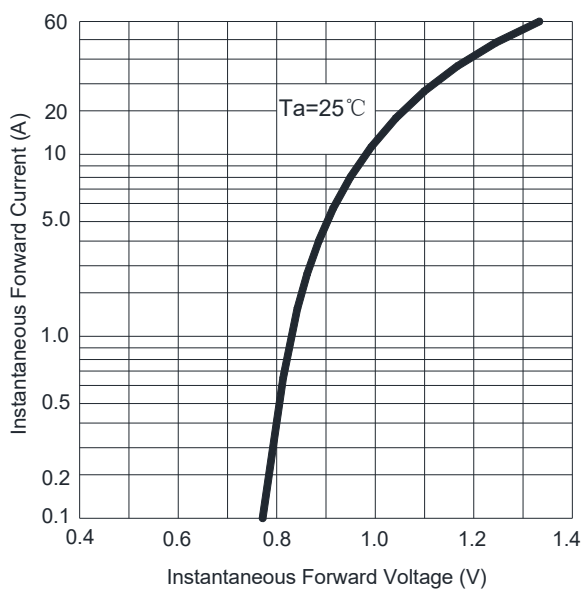
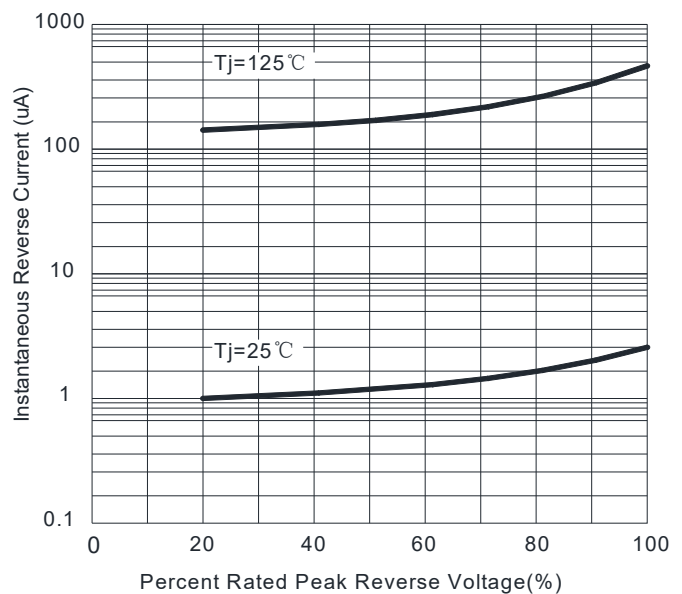
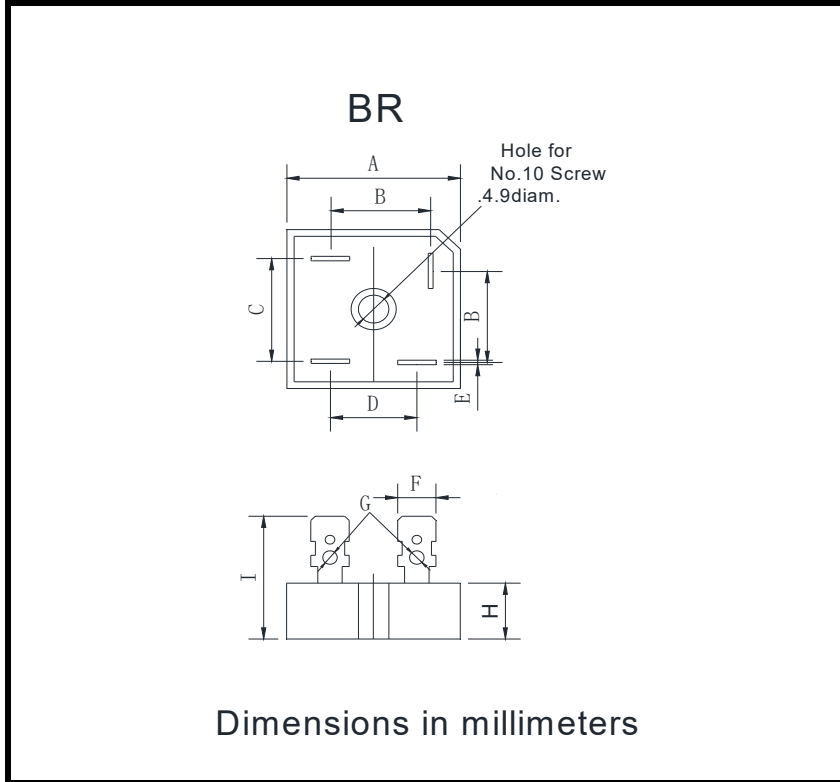


FIG4:Typical Reverse Characteristics



■ Outline Dimensions

BR15005 THRU BR1510



BR		
Dim	Min	Max
A	28.2	28.8
B	15.3	17.3
C	17.1	19.1
D	13.2	15.2
E	0.75	0.85
F	6.2	6.4
G	2.3	2.5
H	10.8	11.2
I	19	/

BR15005 THRU BR1510

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