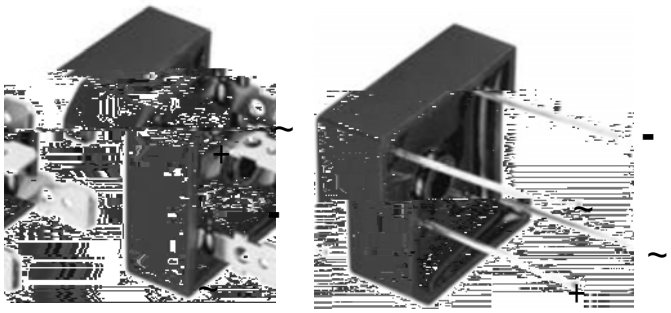
Bridge Rectifiers

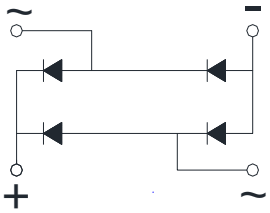


Features

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

Typical Applications

General purpoq ectm l q ti7® ṡ, 3 D¾ ɜ



Mechanical Data

- **Package**: BR 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.BR1510W).

■Maximum Ratings (T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	BR15005	BR1501	BR1502	BR1504	BR1506	BR1508	BR1510
Device marking code			BR15005	BR1501	BR1502	BR1504	BR1506	BR1508	BR1510
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, T_C =90	I_O	A	15						
Forward Surge Current (Non-repetitive) @8.3ms, Half-sine wave,1 cycle, Tj=25	I_{FSM}	A	300						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			600						
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode	I^2t	A^2S	374						
Storage temperature	Tstg		-55 ~ +150						
Junction temperature	Tj		-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV	2.5						
Mounting torque @Recommend torque 5kg cm	Tor	kg cm	8						

■**Electrical Characteristics** T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS

FIG3: Typical Forward Voltage

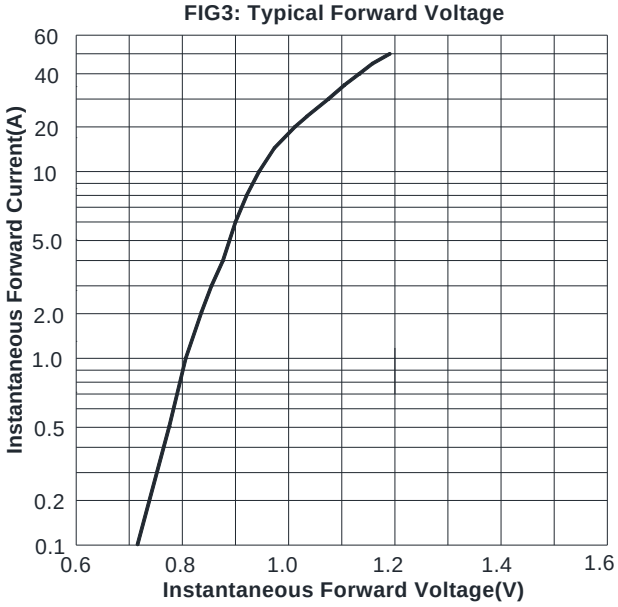
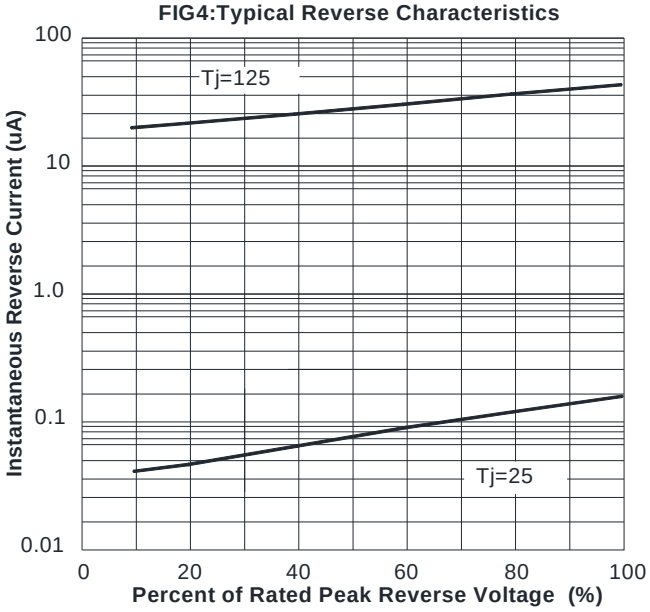
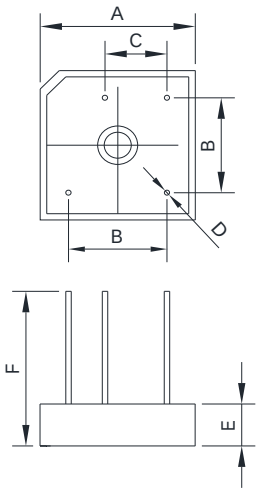


FIG4:Typical Reverse Characteristics

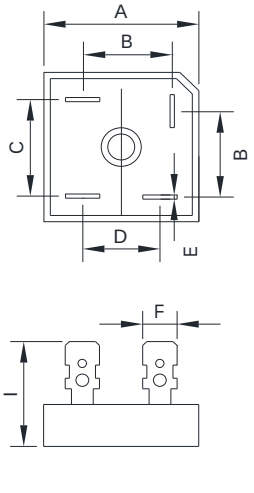


■ Outline Dimensions

BR-W



BR



BR-W		
Dim	**Min**	**Max**
A	28.2	28.8
B	17.1	19.1
C	10.4	12.4
D	0.95	1.05
E	10.8	11.2
F	30	/
G	4.5	5.5

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	/
J	4.5	5.5

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