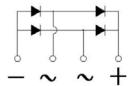




Bridge Rectifiers





Features

- UL recognition, file #E230084
- Universal 3-way terminals: snap-on, wire wraparound, or PCB mounting
- Glass passivated chip junction
- High surge current capability
- 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-L

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

• **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

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

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PARAMETER	SYMBOL	UNIT	BR50005L	BR5001L	BR5002L	BR5004L	BR5006L	BR5008L	BR5010L
Device marking code			BR50005L	BR5001L	BR5002L	BR5004L	BR5006L	BR5008L	BR5010L
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	٧	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, T _C =55°C	Ю	Α	50						
Forward Surge Current (Non-repetitive) @8.3ms, Half-sine wave,1 cycle, Tj=25°C	Isou	•	500						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM	Α	1000						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l²t	A ² S	1038						
Storage temperature	T _{stg}	°C	-55 ~ +150						
Junction temperature	Tj	°C	-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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	BR50005L B	R5001L	BR5002L	BR5004L	BR5006L	BR5008L	BR5010L
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=25A	1.1						
Maximum DC reverse current			Tj =25°C	5						
at rated DC blocking voltage per diode	IR	μА	T _j =125°C	25°C 100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	155						

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

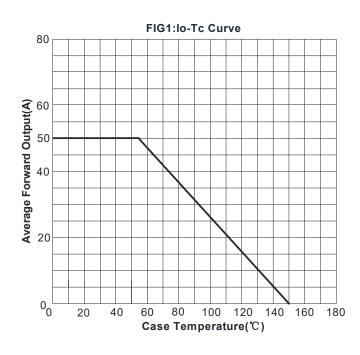
P	ARAMETER	SYMBOL	UNIT	BR50005L	BR5001L	BR5002L	BR5004L	BR5006L	BR5008L	BR5010L
Thermal Resistance	Between junction and case, With heatsink	R ₀ J-C	°C/W				1.2			

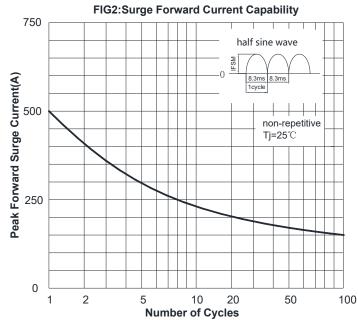
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

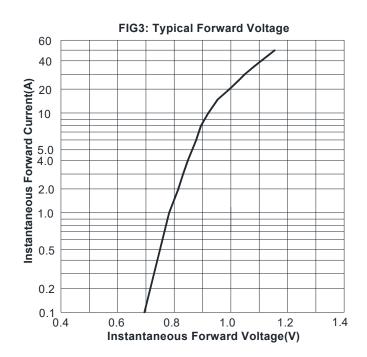
■Ordering Information (Example)

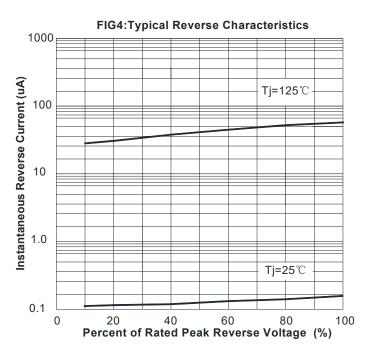
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT (g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BR50005L ~ BR5010L	A1	Approximate 17.1	60	60	600	Paper Box

■ Characteristics (Typical)

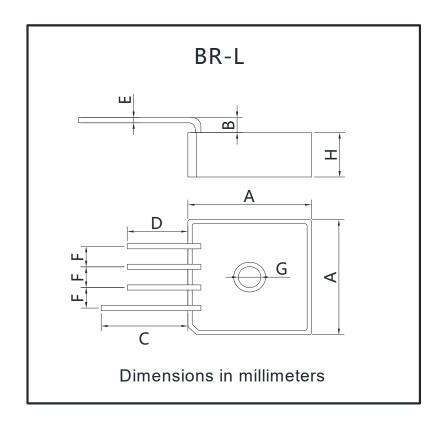








■ Outline Dimensions



BR-L						
Dim	Min	Max				
Α	28.2	28.8				
В	3.0	4.5				
С	19.1	1				
D	13.9	/				
Е	1.23	1.33				
F	4.6	5.6				
G	4.5	5.5				
Н	10.8	11.2				



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