



BR-L 10A/15A/25A/35A SERIES

**SINGLE PHASE 10/15/25/35 AMPS.
SILICON
BRIDGE RECTIFIERS**

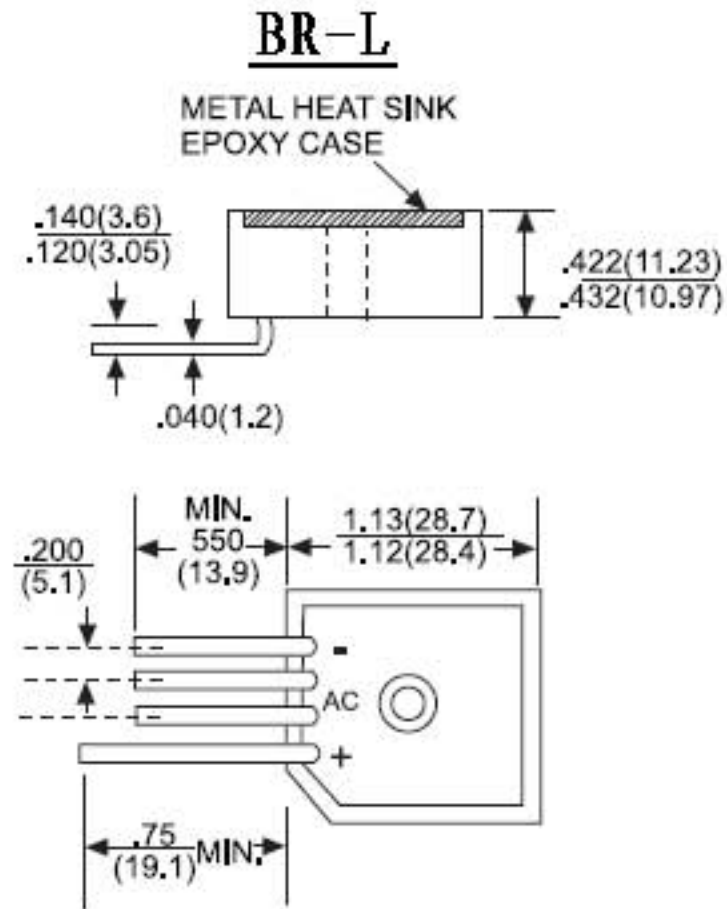
**Voltage Range
50 to 1000 Volts
Current
10/15/25/35 Amperes**

FEATURES

- Plastic case with heatsink for heat dissipation
- Surge overload 200 - 400 Amperes peak
- The plastic package has Underwriters Laboratory flammability classification 94V-0

MECHANICAL DATA

- Case: Molded plastic with heatsink integrally mounted in the bridge encapsulation.
- Weight: 1 ounce, 30 grams.
- Mounting position: Any
- Terminals: Wire Lead ϕ 50 mils.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	BR	BR	BR	BR	BR	BR	BR	UNITS	
	10005L	1001L	1002L	1004L	1006L	1008L	1010L		
	15005L	1501L	1502L	1504L	1506L	1508L	1510L		
	25005L	2501L	2502L	2504L	2506L	2508L	2510L		
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Current for Resistive Load at Tc=55°C	BR10L BR15L BR25L BR35L	IF(AV)			10 15 25 35				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	BR10L BR15L BR25L BR35L	IFSM			200 300 400 400				A
Maximum Forward Voltage per Bridge Leg at specified Current	BR10L 5.0A BR15L 7.5A BR25L 12.5A BR35L 17.5A	VF			1.2				V
Maximum Reverse Current at Rated DC Blocking Voltage	@TA=25°C @TA=100°C	IR			5 1.0				µA mA
I ² t Rating for fusing (t<8.3ms)	I ² t				374/664				A ² S
Typical Thermal Resistance(Fig.3)	RθJC				2.0				°C/W
Operating Temperature Range Storage Temperature Range	TJ TSTG				-55 to +150				°C

RATING AND CHARACTERISTIC CURVES BR-L 10A/15A/25A/35A SERIES



FIG.1 -MAXIMUM FORWARD SURGE CURRENT

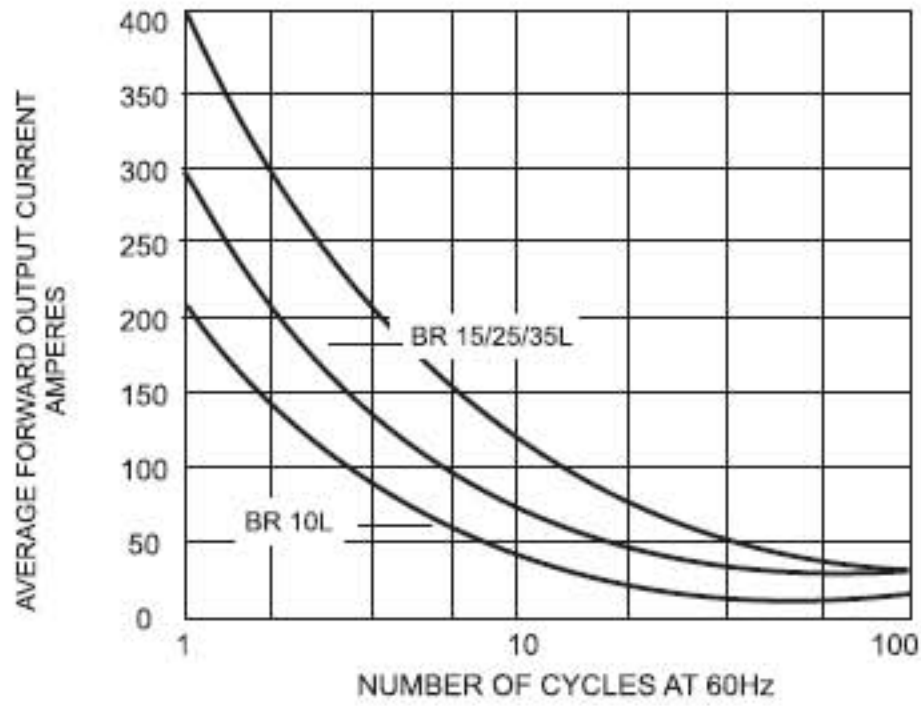


FIG.2 -DERATING CURVE
OUTPUT RECTIFIED CURRENT

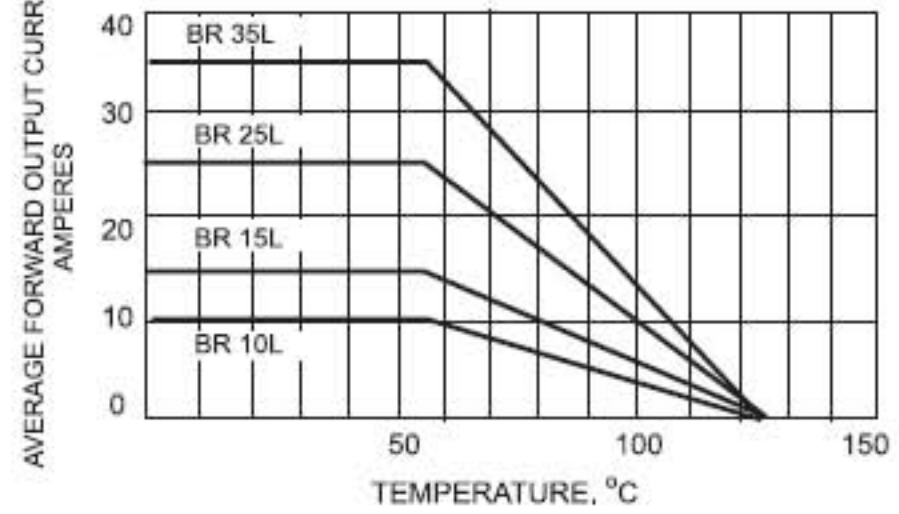


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

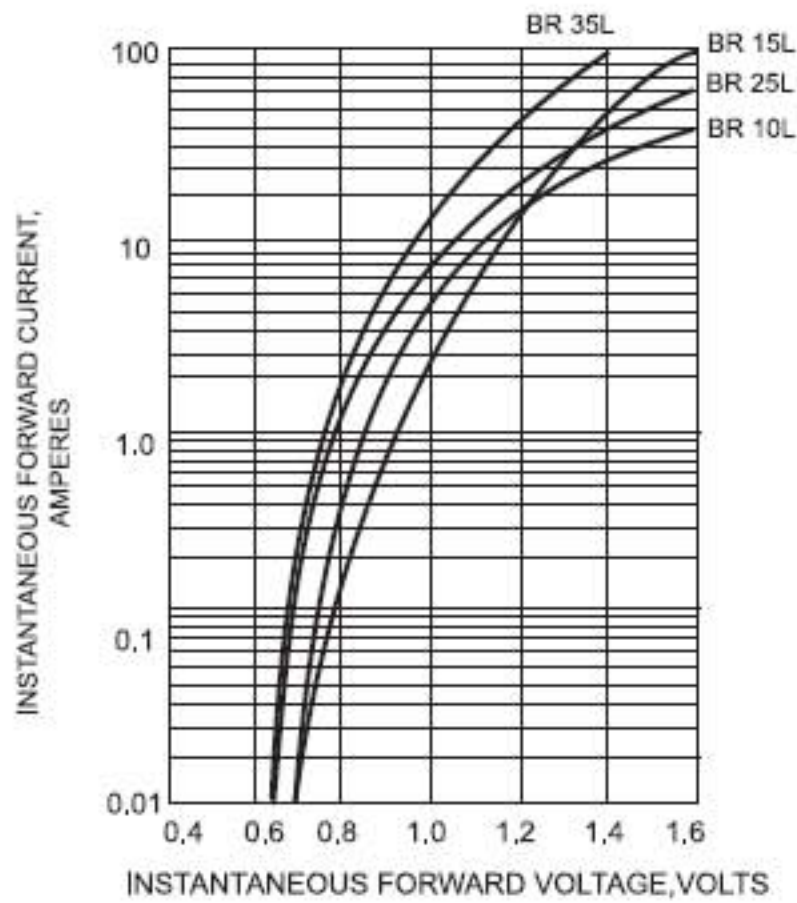


FIG.4 - TYPICAL REVERSE
CHARACTERISTICS

