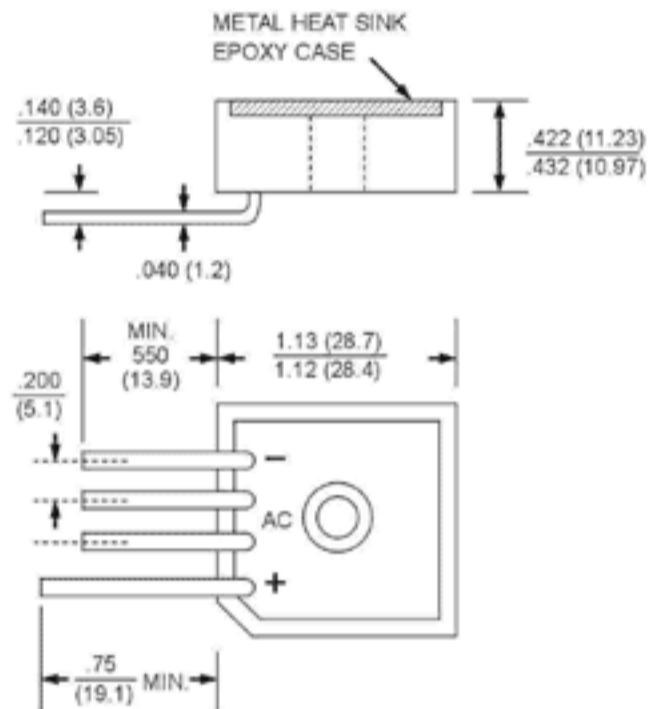


**GLASS PASSIVATED  
BRIDGE RECTIFIERS**
**REVERSE VOLTAGE - 50 to 1000 Volts**  
**FORWARD CURRENT - 10 - 35 Amperes**
**FEATURES**

- 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  $\phi$  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%.

CHARACTERISTICS	BR	BR	BR	BR	BR	BR	BR	UNIT
	1005GL	101GL	102GL	104GL	106GL	108GL	1010GL	
	1505GL	151GL	152GL	154GL	156GL	158GL	1510GL	
	2505GL	251GL	252GL	254GL	256GL	258GL	2510GL	
	3505GL	351GL	352GL	354GL	356GL	358GL	3510GL	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Current for Resistive Load at T <sub>c</sub> =55°C	BR10L			10				A
	BR15L			15				
	BR25L			25				
	BR35L			35				
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	BR10L			200				A
	BR15L			300				
	BR25L			340				
	BR35L			400				
Maximum Forward Voltage per Bridge Element at 5.0/7.5/12.5/17.5/25.0 A Peak				1.1				V
Maximum Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C			10				μA
	@T <sub>A</sub> =100°C			1000				
I <sup>2</sup> t Rating for fusing (t<8.3ms)				374/664				A <sup>2</sup> S
Typical Thermal Resistance (Fig. 3) R <sub>θJC</sub>				2.0				°C/W
Operating Temperature Range T <sub>J</sub> Storage Temperature Range T <sub>A</sub>				-55 to +150				°C