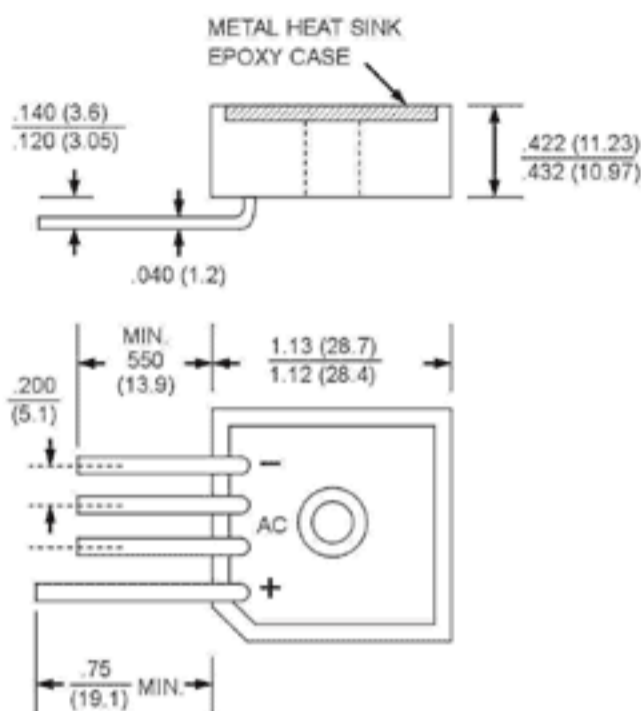


**SILICON BRIDGE RECTIFIERS**
**REVERSE VOLTAGE - 50 to 1000 Volts**  
**FORWARD CURRENT - 10 - 35 Amperes**
**FEATURES**

- 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	
	1005L	101L	102L	104L	106L	108L	1010L		
	1505L	151L	152L	154L	156L	158L	1510L		
	2505L	251L	252L	254L	256L	258L	2510L		
	3505L	351L	352L	354L	356L	358L	3510L		
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	BR15L	BR25L	BR35L	10	15	25	35	A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load	BR10L	BR15L	BR25L	BR35L	240	300	350	400	A
Maximum Forward Voltage per Bridge Element at 5.0/7.5/12.5/17.5/25.0 A Peak								1.0	V
Maximum Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C			@T <sub>A</sub> = 100°C			10	1000	μA
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>								-40 to +125	°C