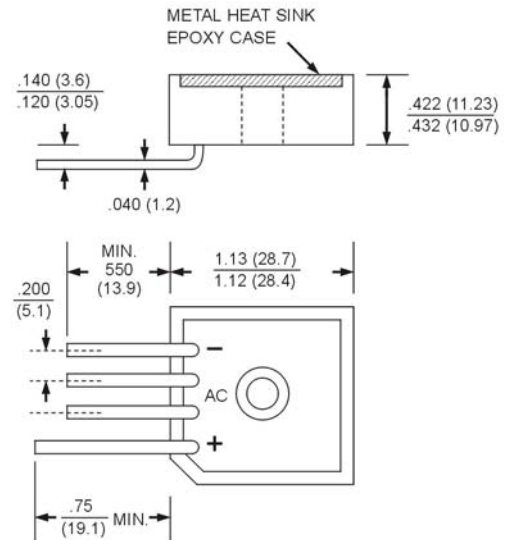


RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

●FEATURES

- . Plastic case with heatsink for heat dissipation
- . The plastic package has Underwriters Laboratory flammability classification 94V-0



Dimensions in inches and (millimeters)

●MECHANICAL DATA

- . Case: Molded plastic with heatsink integrally mount in the bridge encapsulation
- . Terminals: Wire Lead Ø 50 mils
- . Mounting position: Any
- . Weight: 30 grams

●MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 °C ambient temperature unless otherwise specified.
Resistive or inductive load, 60Hz,
For capacitive load, derate current by 20%.

TYPE NUMBER	BR4005L	BR401L	BR402L	BR404L	BR406L	BR408L	BR4010L	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current, at Ta=55°C	40							A
Peak Forward Surge Current, 8.3 ms single half Sine-wave superimposed on rated load (JEDEC method)	400							A
Maximum Forward Voltage Drop per Bridge Element at 20A Peak	1.01							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Element	10							µA
	1000							
I ² t Rating for fusing (t < 8.3 ms)	374/664							A ² S
Typical Thermal Resistance (Fig.3) RθJC	2.0							°C/W
Operating Temperature Range T _J	-40 ~ +125							°C
Storage Temperature Range T _{STG}								

RATING AND CHARACTERISTIC CURVES (BR4005L THRU BR4010L)

FIG. 1 - MAXIMUM FORWARD SURGE CURRENT

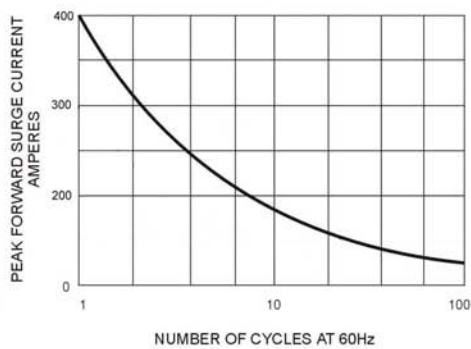


FIG. 2 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

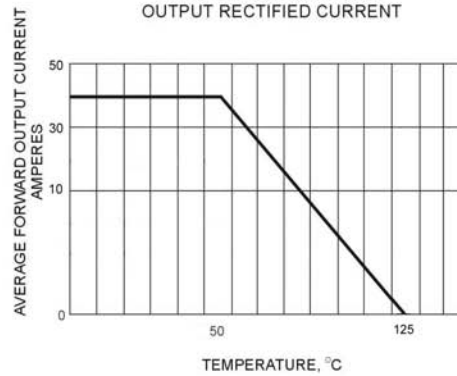


FIG. 3 - TYPICAL FORWARD
CHARACTERISTICS

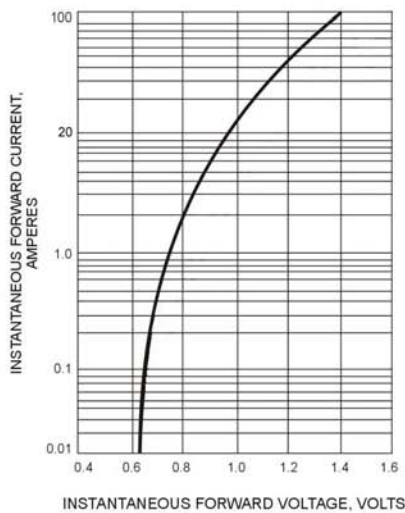


FIG. 4 - TYPICAL REVERSE
CHARACTERISTICS

