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

SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50** to **1000** Volts
FORWARD CURRENT - **10-35** Amperes

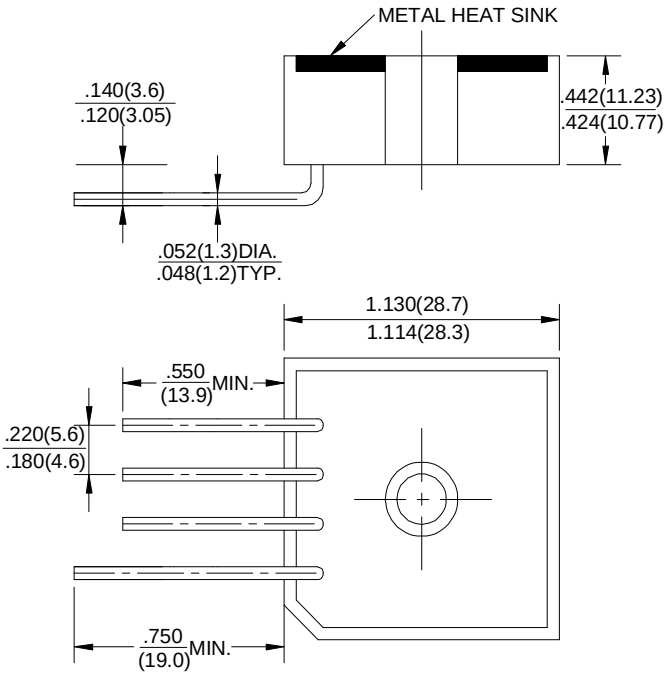
FEATURES

- Plastic case with heatsink for heat dissipation
- Surge overload -240~400 Amperes peak
- The plastic package has UL 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.

BR-L



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	BR 1005L / 1505L / 2505L / 3505L	BR 101L / 151L / 251L / 351L	BR 102L / 152L / 252L / 352L	BR 104L / 154L / 254L / 354L	BR 106L / 156L / 256L / 356L	BR 108L / 158L / 258L / 358L	BR 1010L / 1510L / 2510L / 3510L	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current for Resistive Load @T_C=55℃	$I_{(AV)}$	BR 10L: 10	BR 15L: 15	BR 25L: 25	BR 35L: 35				A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	240	300	400	400				A
Maximum Forward Voltage Per Bridge Element at 5.0/7.5/12.5/17.5A Peak	V_F	1.1							V
Maximum Reverse Current at Rate @T_A=25℃ / DC Blocking Voltage @T_A=100℃	I_R	10 / 1000							uA
I^2t Rating for Fusing (t<8.3ms)	I^2t	374/664							A^2S
Typical Thermal Resistance (FIG.3)	$R_{\theta JC}$	2.0							℃/W
Operating Temperature Range	T_J	-55 to +125							℃
Storage Temperature Range	T_{STG}	-55 to +125							℃

FIG.1-MAXIMUM FORWARD SURGE CURRENT

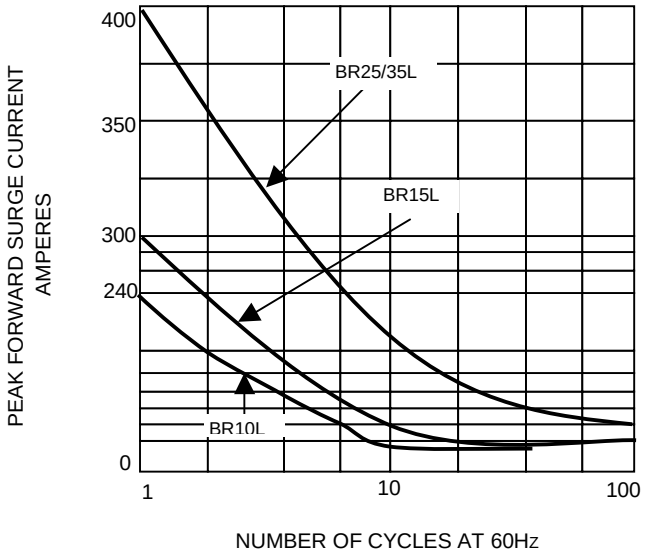


FIG.2-DERATING CURVE
OUTPUT RECTIFIED CURRENT

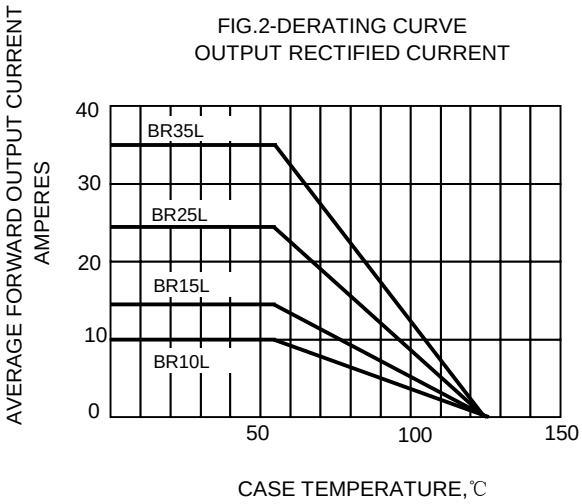


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

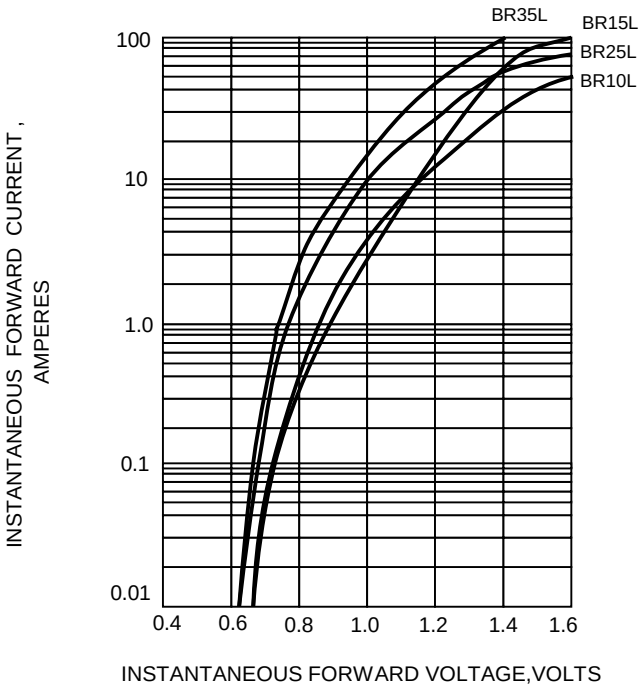


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

