



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

SILICON BRIDGE RECTIFIERS

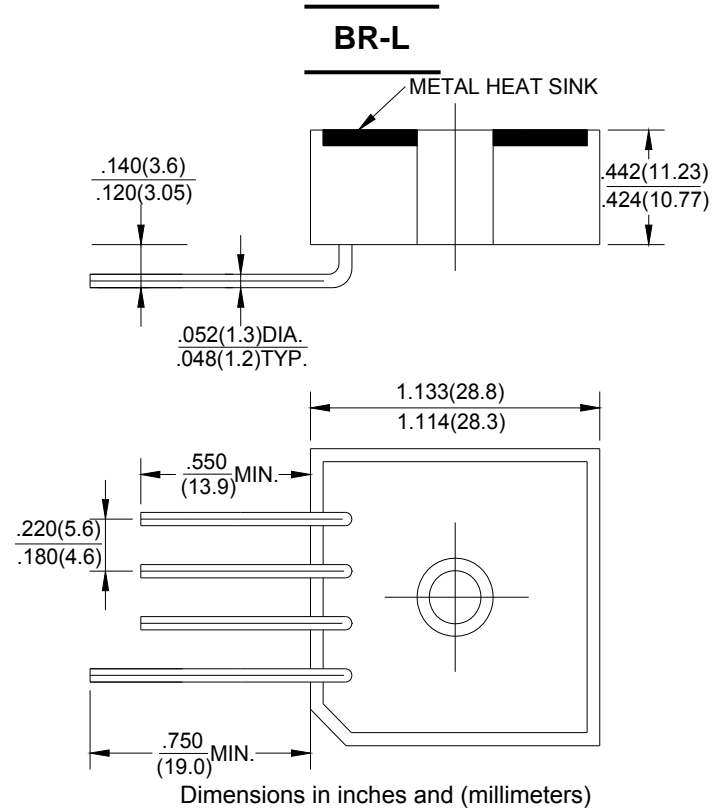
REVERSE VOLTAGE - 50 to 1000 Volts
 FORWARD CURRENT - 10/15/25/35 Amperes

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.



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 | SYMBOL | 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 | 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°C | I _(AV) | BR 10L | 10 | BR 15L | 15 | BR 25L | 25 | BR 35L | 35 | A |
| Peak Forward Surge 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 _J =25°C DC Blocking Voltage @T _J =100°C | I _R | 10 1000 | | | | | | | μA | |
| I ² t Rating for Fusing (t<8.3ms) | I ² t | 239/374/664 | | | | | | | A ² S | |
| Typical Thermal Resistance | R _{θJC} | 2.0 | | | | | | | °C/W | |
| Operating Temperature Range | T _J | -55 to +150 | | | | | | | °C | |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | °C | |

NOTES: 1. The typical data above is for reference only (典型值仅供参考).

FIG.1-MAXIMUM FORWARD SURGE CURRENT

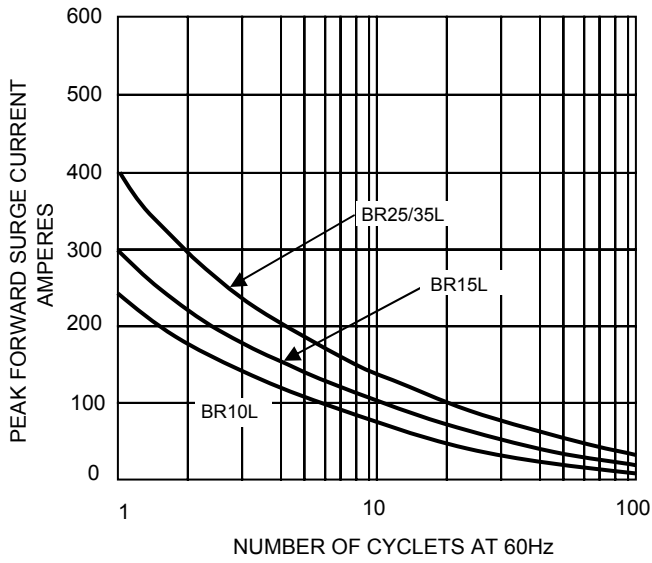


FIG.2-DERATING CURVE
 OUTPUT RECTIFIED CURRENT

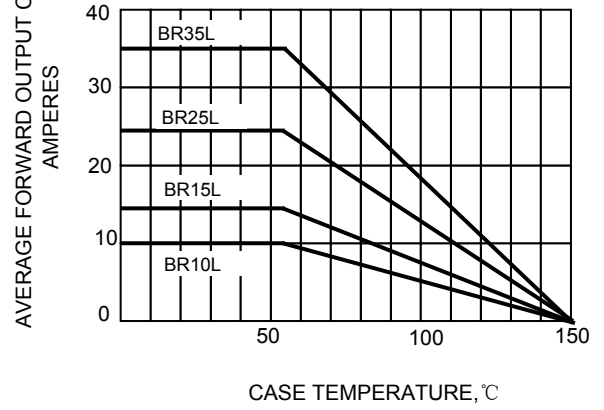


FIG.3-TYPICAL FORWARD CHARACTERISTICS

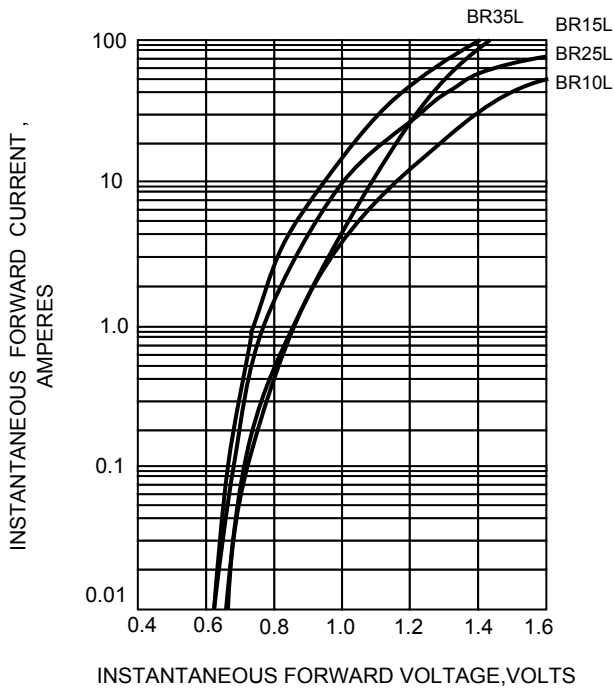
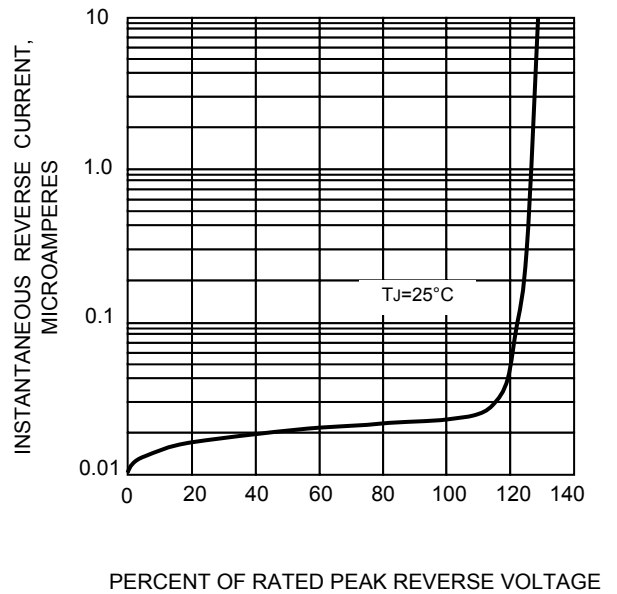


FIG.4-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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