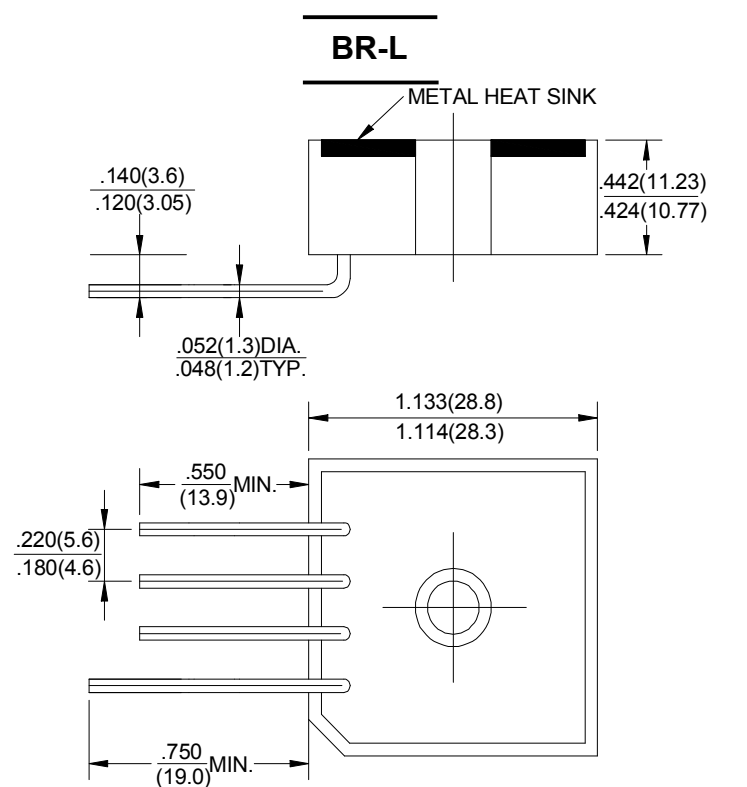


| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SILICON BRIDGE RECTIFIERS | REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 10-35 Amperes |
| FEATURES <ul style="list-style-type: none"> ● Plastic case with heatsink for heat dissipation ● Surge overload -240~400 Amperes peak ● The plastic package has UL flammability classification 94V-0 MECHANICAL DATA <ul style="list-style-type: none"> ● 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. |  <p style="text-align: center;">Dimensions in inches and (millimeters)</p> |

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} | BR 10L | 240 | BR 15L | 300 | BR 25L | 400 | BR 35L | 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°C | I _R | 10 | | | | | | | μA | |
| DC Blocking Voltage @T _A =100°C | I _R | 1000 | | | | | | | μA | |
| I ² t Rating for Fusing (t<8.3ms) | I ² t | 374/664 | | | | | | | A ² S | |
| Typical Thermal Resistance (FIG.3) | R _{θJC} | 2.0 | | | | | | | °C/W | |
| Operating Temperature Range | T _J | -55 to +125 | | | | | | | °C | |
| Storage Temperature Range | T _{STG} | -55 to +125 | | | | | | | °C | |

RATING AND CHARACTERISTIC CURVES

BR-L10/15/25/35A SERIES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

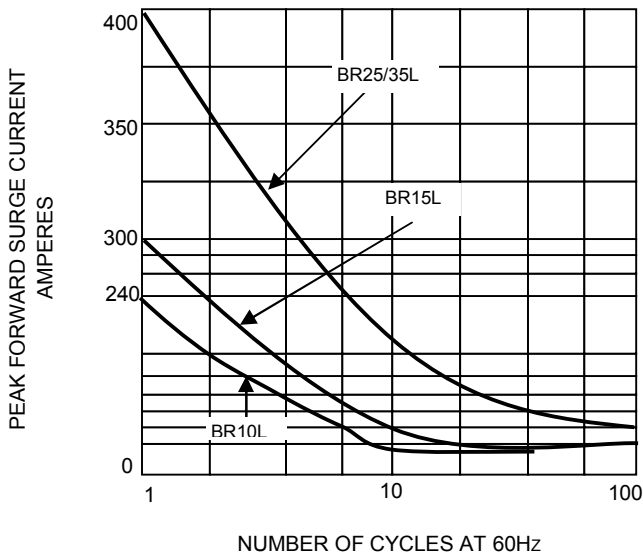


FIG.2-DERATING CURVE
OUTPUT RECTIFIED CURRENT

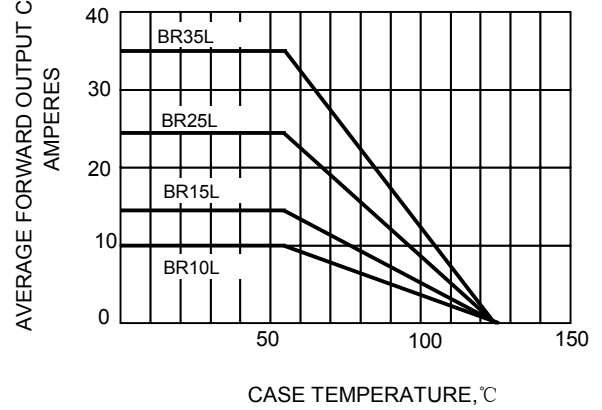


FIG.3-TYPICAL FORWARD CHARACTERISTICS

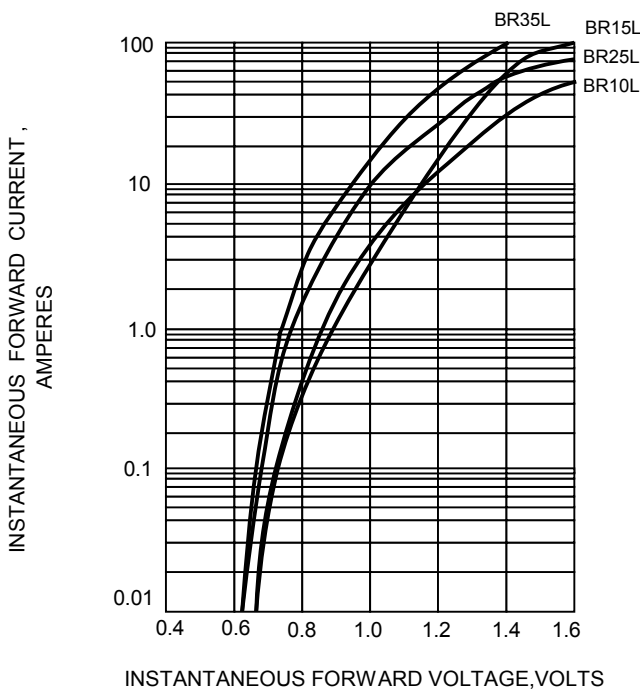


FIG.4-TYPICAL REVERSE CHARACTERISTICS

