

SGBJ3616

Features

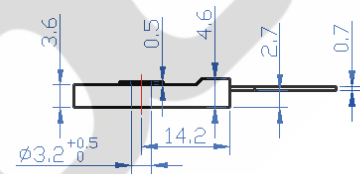
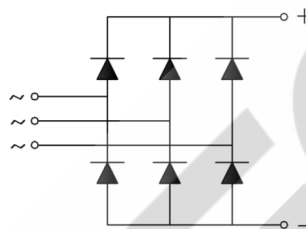
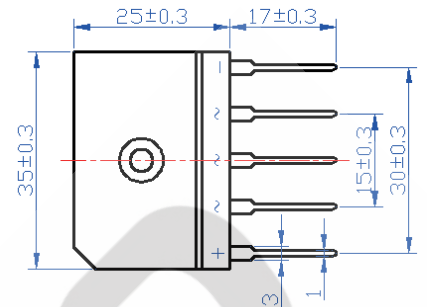
- Glass passivated chip, high reliability
- Low forward voltage drop
- Insulation voltage: 2500V~

Application

- DC power supply
- Input rectifying of PWM converter
- Power supply of DC equipments

Characteristics

- Simple installation
- Smart size, Light weight
- Small heating resistance, high heat radiation, low temperature



■ Max. value

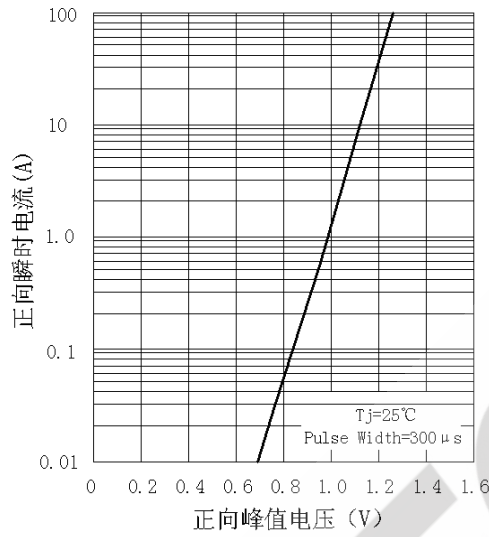
| Symbol | Rated | | | | Unit |
|-----------|----------|----------|----------|----------|------|
| | SGBJ3510 | SGBJ3512 | SGBJ3514 | SGBJ3516 | |
| V_{RRM} | 1000 | 1200 | 1400 | 1600 | V |
| V_{RSM} | 1100 | 1300 | 1500 | 1700 | V |

| Symbol | Testing condition | Rated | Unit |
|-------------|--|-------------|-------------------------|
| $I_{F(AV)}$ | 180° sine anf half wave 50Hz, $T_c=100^\circ\text{C}$ | 35 | A |
| I_{FSM} | $t=10\text{ms}, 50\text{Hz}, \text{sin}, T_j=25^\circ\text{C}$ | 400 | A |
| I^2t | | 660 | A^2S |
| V_{ISO} | 50Hz, R.M.S, $t=1\text{min}, I_{iso}: 1\text{mA}(\text{Max})$ | 2500 | V |
| T_j | | -40 to +150 | $^\circ\text{C}$ |
| T_{jm} | | 150 | $^\circ\text{C}$ |
| T_{stg} | | -40 to +125 | $^\circ\text{C}$ |
| M_d | | 0.8 | $\text{N}\cdot\text{m}$ |
| W_t | | 10 | g |

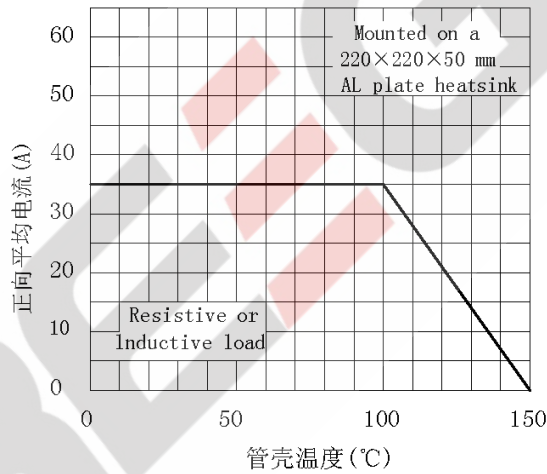
| Symbol | Testing condition | Rated | Unit |
|---------------|--|-------|---------------------------|
| I_{RRM} | $V_R=V_{RRM}, \text{ sine anf half wave}, T_j=25^\circ\text{C}$ | 5 | μA |
| | $V_R=V_{RRM}, \text{ sine anf half wave}, T_j=150^\circ\text{C}$ | 3 | mA |
| V_{FM} | $I_{FM}=17.5\text{A}, T_j=25^\circ\text{C}$ | 1.2 | V |
| $R_{th(j-c)}$ | single side cooling, sine anf half wave | 0.96 | $^\circ\text{C}/\text{W}$ |

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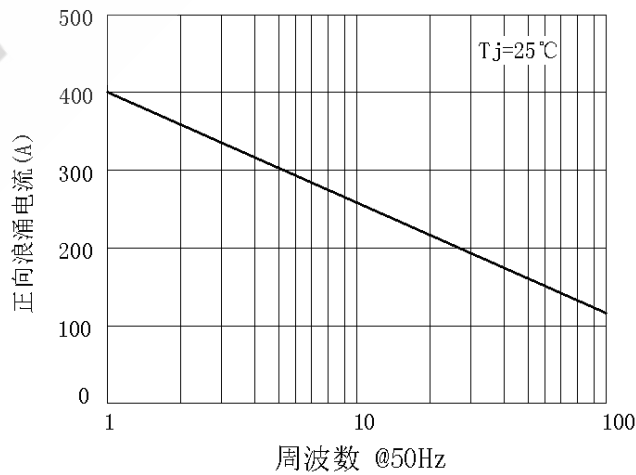
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