

FEATURES

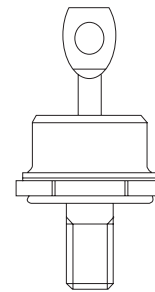
- 1). Reverse voltages up to 1600V
- 2). Hermetic metal case with glass insulator
- 3). Threaded stud ISO M8
- 4). SKR: cathode to stud

MAJOR RATINGS AND CHARACTERISTICS

| V_{RSM} | V_{RRM} | $I_{FRMS}=80A$ (maximum value for continuous operation) $I_{FAV}=45A$ (sin. 180° ; $T_C=125^{\circ}C$) |
|-----------|-----------|--|
| V | V | |
| 400 | 400 | SKR 46/04 |
| 800 | 800 | SKR 46/08 |
| 1200 | 1200 | SKR 46/12 |
| 1400 | 1400 | SKR 46/14 |
| 1600 | 1600 | SKR 46/16 |

TYPICAL APPLICATIONS

- 1). All-purpose mean power rectifier diodes
- 2). Cooling via heatsinks
- 3). Non-controllable and half-controllable rectifiers
- 4). Free-wheeling diodes
- 5). Recommended snubber network:
RC: 0,1 μ F, 100 Ω ($P_R=1W$),
 $R_p=80K\Omega$ ($P_R=6W$)



ELECTRICAL SPECIFICATIONS

| Symbol | Conditions | Values | V |
|---------------|--|--------------|------------------|
| I_{FAV} | sin. 180; $T_C=100^{\circ}C$ | 50 | A |
| I_D | K 9; $T_a=45^{\circ}C$; B2/B6 | 40/57 | A |
| | K 3; $T_a=45^{\circ}C$; B2/B6 | 86/120 | A |
| I_{FSM} | $T_{vj}=25^{\circ}C$; 10ms | 700 | A |
| | $T_{vj}=180^{\circ}C$; 10ms | 600 | A |
| I^2t | $T_{vj}=25^{\circ}C$; 8,3 ... 10ms | 2500 | A ₂ S |
| | $T_{vj}=180^{\circ}C$; 8,3 ... 10ms | 1800 | A ₂ S |
| V_F | $T_{vj}=25^{\circ}C$; $I_F=150A$ | max. 1.6 | V |
| $V_{(TO)}$ | $T_{vj}=180^{\circ}C$ | max. 0.85 | V |
| r_T | $T_{vj}=180^{\circ}C$ | max. 5 | m Ω |
| I_{RD} | $T_{vj}=180^{\circ}C$; $V_{RD}=V_{RRM}$ | max. 10 | mA |
| Q_{rr} | $T_{vj}=160^{\circ}C$; $-di_F/dt=10A \mu s$ | 70 | μC |
| $R_{th(j-c)}$ | | 0.85 | K/W |
| $R_{th(c-s)}$ | | 0.25 | K/W |
| T_{vj} | | -40 ... +180 | $^{\circ}C$ |
| T_{stg} | | -55 ... +180 | $^{\circ}C$ |

| Symbol | Conditions | Values | V |
|------------|-------------|--------|------------------|
| V_{isol} | | - | V~ |
| M_s | to heatsink | 4 | Nm |
| a | | 5*9.81 | m/s ² |
| m | approx. | 30 | g |
| Case | | E12 | |

PERFORMANCE CURVES FIGURE

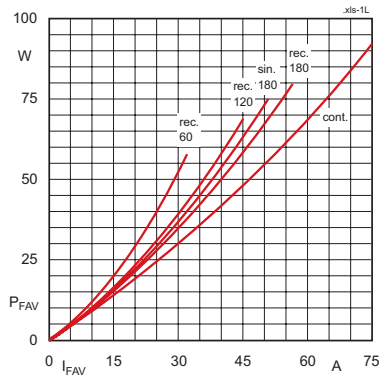


Fig. 1L Power dissipation vs. forward current

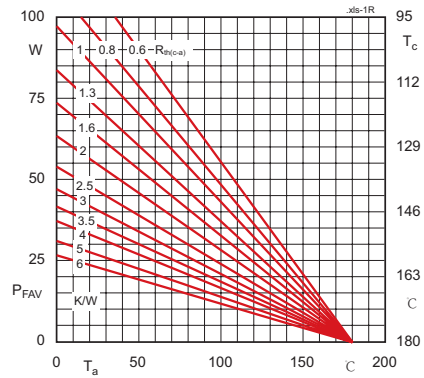


Fig. 1R Power dissipation vs. ambient temperature

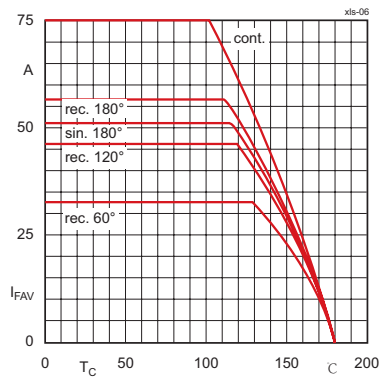


Fig. 2 Forward current vs. case temperature

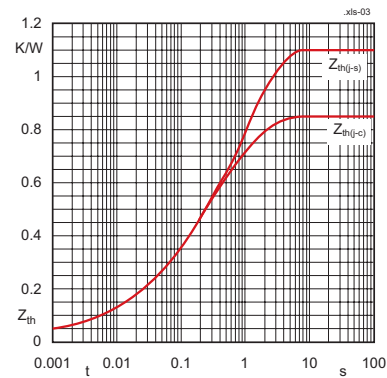


Fig. 4 Transient thermal impedance vs. time

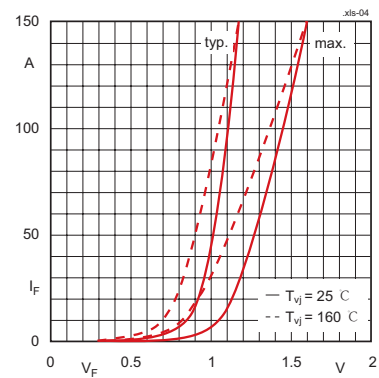


Fig. 3 Forward current vs. forward voltage

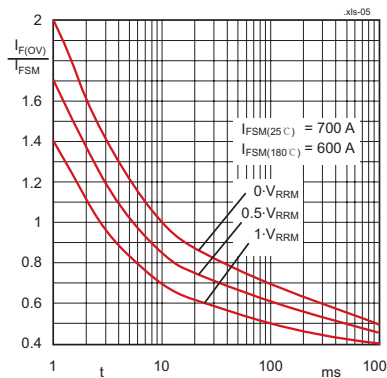
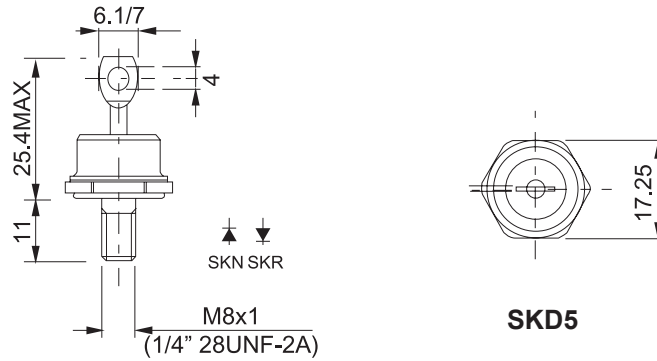


Fig. 5 Forward current vs. time

OUTLINE



YUEQING LIUJING RECTIFIER CO., LTD

Sale Department: Liujing Building, Yueqing City,
Zhejiang Province

Add: Wanao Industrial Zone, Yueqing city,
Zhejiang Province

Tel: 0086-577-62519692 0089-577-62519693

Fax: 0086-577-62518692

International Export: 0086-577-62571902

Technical Support: 0086-15868768965

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