

FEATURES

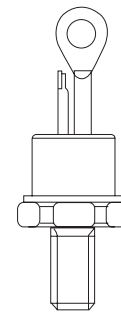
- 2). Hermetic metal case with glass insulator
- 3). Threaded stud ISO M5
- 4). International standard case

MAJOR RATINGS AND CHARACTERISTICS

| V_{RSM} | V_{RRM}, V_{DRM} | $I_{TRMS}=30A$ (maximum value for continuous operation) $I_{TAV}=10A$ (sin. 180° ; $T_C=111^{\circ}C$) |
|-----------|--------------------|--|
| V | V | |
| 700 | 600 | SKT 10/06D |
| 900 | 800 | SKT 10/08D |
| 1300 | 1200 | SKT 10/12E |

TYPICAL APPLICATIONS

- 1). DC motor control (e.g. for machine tools)
- 2). Controlled rectifiers (e.g. for battery charging)
- 3). AC controllers (e.g. for temperature control)
- 4). Recommended snubber network:
e.g. for $V_{VRMS} \leq 400V$: $R=100\Omega/5W$, $C=0.1\mu F$



ELECTRICAL SPECIFICATIONS

| Symbol | Conditions | Values | V |
|------------------|---|---------------|------------------|
| I_{TAV} | sin. 180; $T_C=100(85)^{\circ}C$ | 14(19) | A |
| I_D | K9; $T_a=45^{\circ}C$; B2/B6 | 12/16.5 | A |
| | K5; $T_a=45^{\circ}C$; B2/B6 | 17/24 | A |
| I_{RSM} | K9; $T_a=45^{\circ}C$; W1C | 13 | A |
| I_{TSM} | $T_{vj}=25^{\circ}C$; 10ms | 250 | A |
| | $T_{vj}=130^{\circ}C$; 10ms | 210 | A |
| I^2t | $T_{vj}=25^{\circ}C$; 8,35 ... 10ms | 310 | A ₂ S |
| | $T_{vj}=130^{\circ}C$; 8,35 ... 10ms | 220 | A ₂ S |
| V_T | $T_{vj}=25^{\circ}C$; $I_F=30A$ | max. 1.6 | V |
| $V_{T(TO)}$ | $T_{vj}=130^{\circ}C$ | max. 1 | V |
| r_T | $T_{vj}=130^{\circ}C$ | max. 18 | m Ω |
| $I_{DD}; I_{RD}$ | $T_{vj}=130^{\circ}C$; $V_{RD}=V_{RRM}$; $V_{DD}=V_{DRM}$ | max. 4 | mA |
| t_{gd} | $T_{vj}=25^{\circ}C$; $I_G=1A$; $di_G/dt=10A/\mu s$ | 1 | μs |
| t_{gr} | $V_D=0.67 * V_{DRM}$ | 2 | μs |
| $(di/dt)_{cr}$ | $T_{vj}=125^{\circ}C$ | max. 50 | A/ μs |
| $(dv/dt)_{cr}$ | $T_{vj}=125^{\circ}C$; SKT ... D/SKT ... E | max. 500/1000 | V/ μs |
| t_q | $T_{vj}=130^{\circ}C$ | 80 | μs |
| I_H | $T_{vj}=25^{\circ}C$; typ./max. | 80/150 | mA |
| I_L | $T_{vj}=25^{\circ}C$; typ./max. | 150/300 | mA |

| Symbol | Conditions | Values | V |
|---------------|-------------------------------------|--------------|--------------------|
| V_{GT} | $T_{vj}=25^{\circ}\text{C}$; d.c. | min.3 | V |
| I_{GT} | $T_{vj}=25^{\circ}\text{C}$; d.c. | min.100 | mA |
| V_{GD} | $T_{vj}=130^{\circ}\text{C}$; d.c. | max.0.25 | V |
| I_{GD} | $T_{vj}=130^{\circ}\text{C}$; d.c. | max.3 | mA |
| $R_{th(j-c)}$ | cont. | 1.2 | K/W |
| $R_{th(j-c)}$ | sin.180 | 1.3 | K/W |
| $R_{th(j-c)}$ | rec.120 | 1.35 | K/W |
| $R_{th(c-s)}$ | | 1 | K/W |
| T_{vj} | | -40 ... +130 | $^{\circ}\text{C}$ |
| T_{stg} | | -40 ... +150 | $^{\circ}\text{C}$ |
| V_{isol} | | - | V~ |
| M_s | to heatsink | 2.0 | Nm |
| a | | 5*9.81 | m/s^2 |
| m | approx. | 7 | g |
| Case | | B1 | |

PERFORMANCE CURVES FIGURE

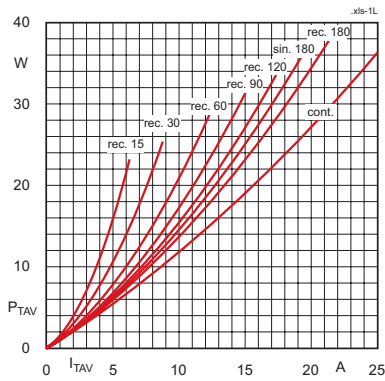


Fig. 1L Power dissipation vs. on-state current

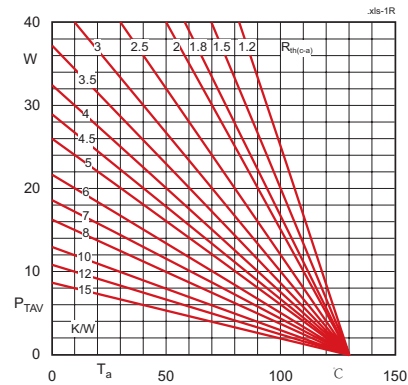


Fig. 1R Power dissipation vs. ambient temperature

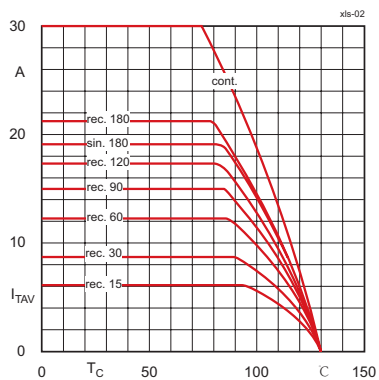


Fig. 2 Rated on-state current vs. case temperature

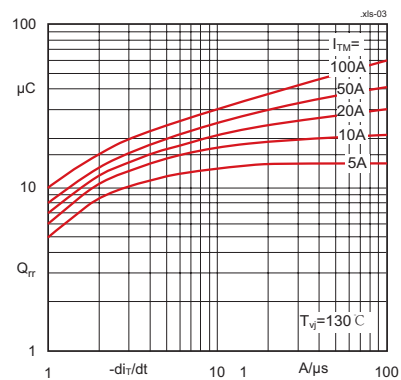


Fig. 3 Recovered charge vs. current decrease

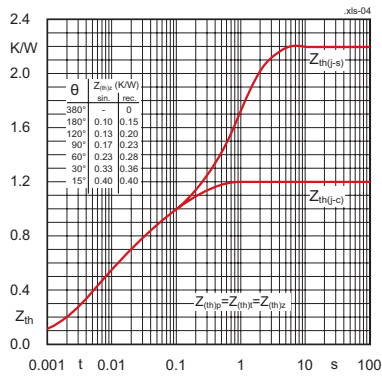


Fig. 4 Transient thermal impedance vs. time

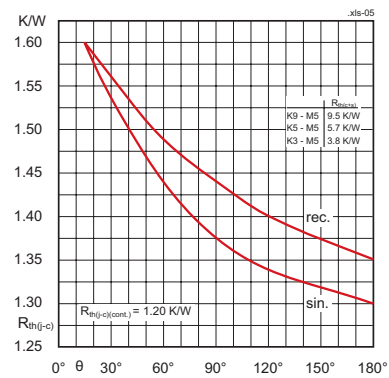


Fig. 5 Thermal resistance vs. conduction angle

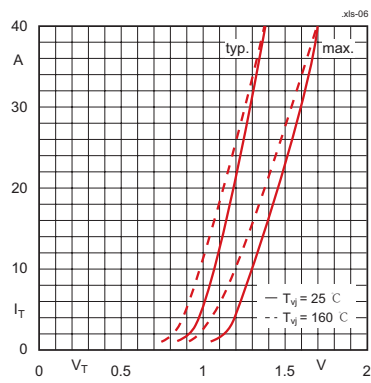


Fig. 6 On-state characteristics

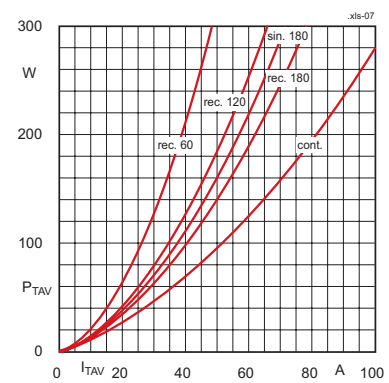


Fig. 7 Power dissipation vs. on-state current

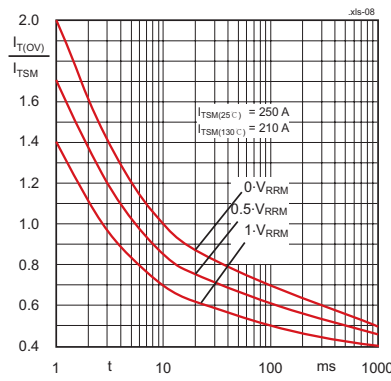


Fig. 8 Surge overload current vs. time

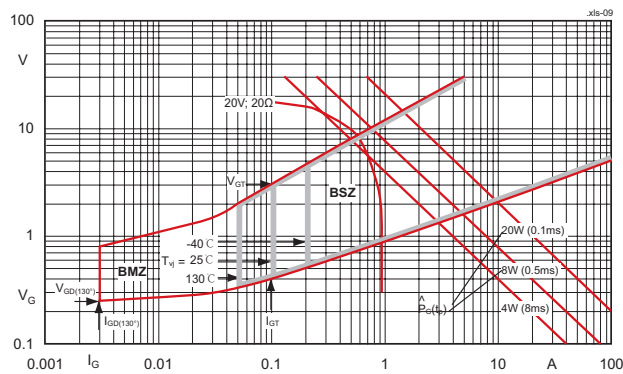
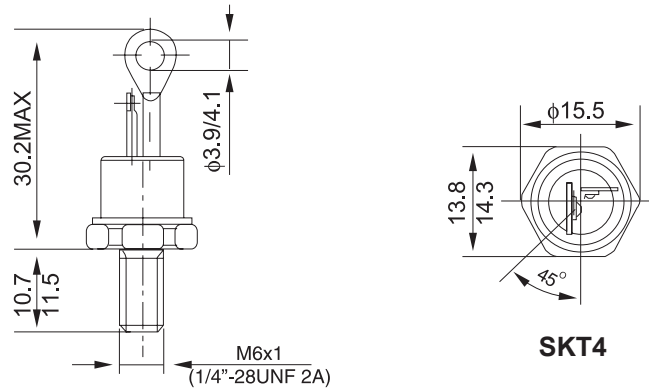


Fig. 9 Gate trigger characteristics

OUTLINE



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