# Dual Thyristor Modules

TYPE:SKKT250/16-EP

## Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precious metal pressure contacts for high reliability
- Thyristor with amplifying gate

## Typical Applications

- DC motor control
- AC motor soft starters
- Temperature control
- Professional light dimming

### Maximum Ratings

| Symbol | Condition | Ratings | Unit |
|---|---|---|---|
| $I_{T(AV)}$ | Single phase，half wave，85° conduction | 250 | A |
| $I_{TRMS}$ | Single phase，half wave，35° conduction | 566 | A |
| $I_{TSM}$ | $T_j$=125℃ | 8000 | A |
| $I^2t$ | $T_j$=125℃ | 320 | $kA^2S$ |
| $V_{DRM}/V_{RRM}$ | | 1600/1600 | V |
| di/dt | non-repetitive | 250 | A/us |
| $V_{iso}$ | A.C.1minute | 3000 | V |
| $T_j$ | | -40 ~ + 125 | ℃ |
| $T_{stg}$ | | -40 ~ + 125 | ℃ |
| W | | 600 | g |

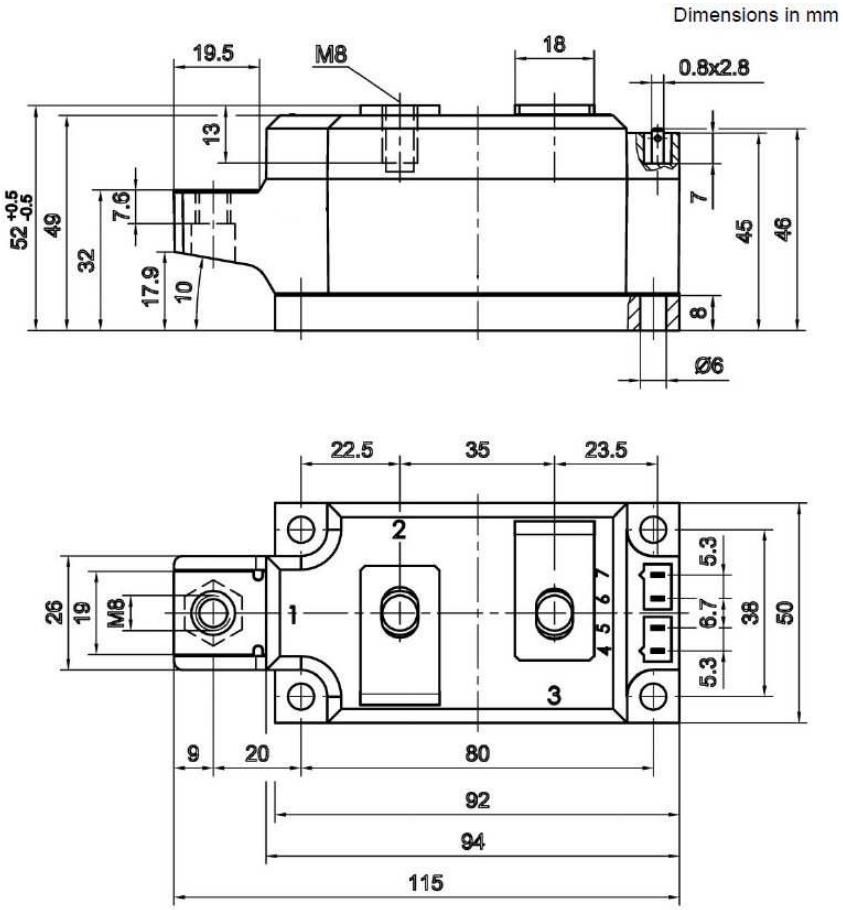
### Electrical Characteristics

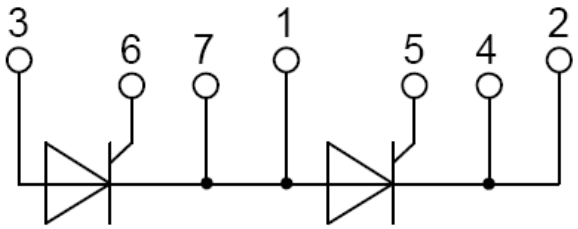
| Symbol | Condition | Ratings | Unit |
|---|---|---|---|
| $I_{DRM}$ /$I_{RRM}$ | At$V_{DRM}$，Single phase，half wave，$T_j$=125℃ | 85 | mA |
| $V_{TM}$ | On-State Current 750A，$T_j$=25℃ | 1.4 | V |
| $V_{T(TO)}$ | $T_j$=125℃ | 0.925 | V |
| rt | $T_j$=125℃ | 0.45 | mΩ |
| $t_{gd}$ | $T_j$=25℃ | 1 | us |
| $t_q$ | $T_j$=125℃ | 50…150 | us |
| $I_{GT}/V_{GT}$ | $T_j$=25℃ | 200 / 3 | mA/V |
| $I_{GD}$ | $T_j$=125℃ | 10 | mA |
| Rgk | Gate Cathode Resistance | 15-20 | Ω |
| $V_{GD}$ | $V_D$=67%$V_{DRM}$，$T_j$=125℃ | 0.25 | V |
| DV/DT | $V_D$=67%$V_{DRM}$ | 1000 | V/us |
| $I_H$ | $T_j$=25℃ | 150 | mA |
| $I_L$ | $T_j$=25℃ | 300 | mA |
| $R_{th(j-c)}$ | Per Module | 0.07 | K/W |

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Outline Drawing




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