MSKP65





Key Parameters

V_{DRM} / V_{RRM} = 1600V $I_{T(AV)}$ = 65A I_{TSM} = 1100A $V_{T(TO)}$ = 0.95 V $=4.7m\Omega$ r _T

Features

- Full blocking capability over wide temperature range
- Hard soldered joints for high reliability

ApplicationsPower Supplies

- DC motor control
- Controlled Rectifiers
- AC switch

Ordering Information

| MSKP | 65 | S | ХX | U |
|---|--------------|--------------------------|---|---|
| Phase Control Thyristor | Current Code | Stud / Flat Base Version | Voltage Code Code X 100 = V _{DRM} /V _{RRM} | Stud Threads U = 1/4" UNF M = M8 x 1.25 |
| Order Code, MSKP65S16U : 1600V Vppm Vppm, Stud base Thyristor with 1/4" UNF threads | | | | |

1600V V_{DRM} , V_{RRM} , Stud base Thyristor with 1/4'

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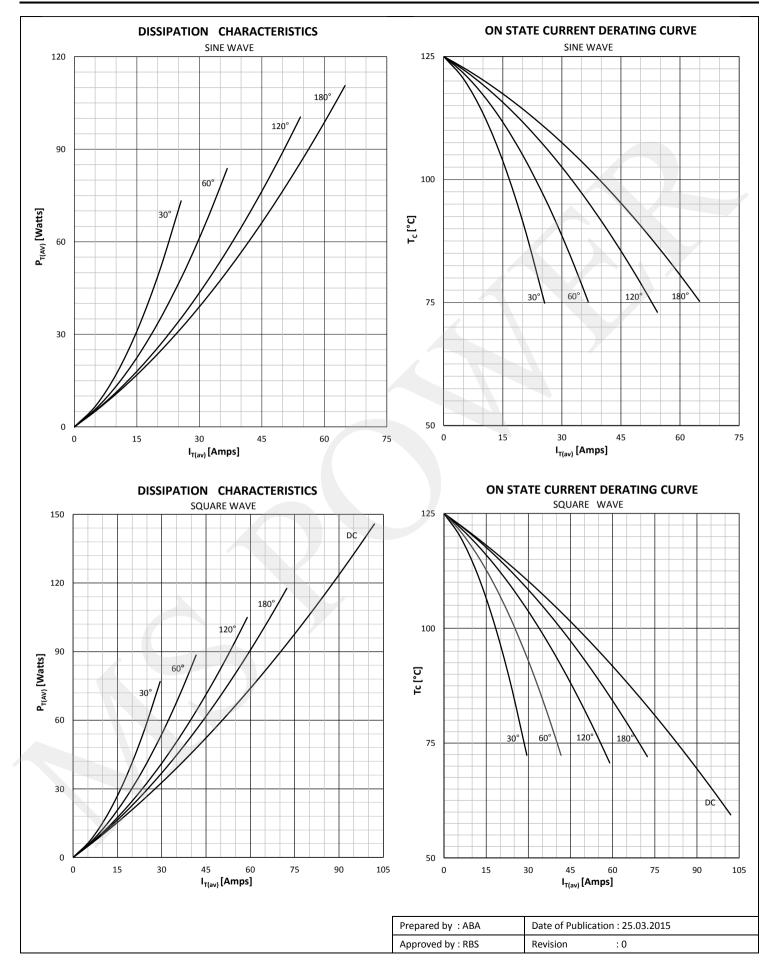


| Symbol | Characteristic | Conditions | Tj [°C] | Value | Unit |
|-----------------|---|---|------------|------------|--------|
| BLOCKI | NG | | | | |
| V RRM | Repetitive peak reverse voltage | | 125 | 200 - 1600 | V |
| V RSM | Non-repetitive peak reverse voltage | | 125 | 300 - 1700 | V |
| V DRM | Repetitive peak off-state voltage | | 125 | 200 - 1600 | V |
| I RRM | Repetitive peak reverse current | V= V RRM | 125 | 10 | mA |
| I DRM | Repetitive peak off-state current | V= V DRM | 125 | 10 | mA |
| CONDU | CTING | | | | |
| I T (AV) | Mean on state current | 180° sin ,50 Hz, T _c =75°C | | 65 | А |
| I RMS | RMS on-state current | | | 102 | Α |
| | | Sine wave, 10 ms | 25 | 1100 | Α |
| I TSM | Surge on-state current | Without reverse voltage | 125 | 1000 | Α |
| | | Cine ways 40 mg | 25 | 6050 | A²s |
| l² t | I ² t | Sine wave, 10 ms Without reverse voltage | 125 | 5000 | A²s |
| Vт | On-state voltage | On-state current = 200A | 125 | 1.95 | V |
| V T(TO) | Threshold voltage | | 125 | 0.95 | V |
| rт | On-state slope resistance | | 125 | 4.7 | mΩ |
| | | | | | |
| SWITCH di/dt | Critical rate of rise of on-state current | | 125 | 150 | A/µs |
| dv/dt | Critical rate of rise of off-state voltage | $V_{DR} = 67\%V_{DRM}$ | 125 | 1000 | V/µs |
| GATE | Chinean late of field of oil office formage | . Dr. G. 76. Dr.W | | .000 | .,,,,, |
| l _{gt} | Gate trigger current | V _D =6V | 25 | 150 | mA |
| V gt | Gate trigger voltage | V _D =6V | 25 | 3.0 | V |
| I _H | Holding current | V _D =6V, gate open circuit | 25 | 200 | mA |
| I _L | Latching current | V _D =6V | 25 | 400 | mA |
| MOUNTI | NG | | | | |
| R th(j-c) | Thermal impedance, sin 180° | Junction to case | | 0.45 | °C/W |
| R th(j-c) | Thermal impedance, rec120° | Junction to case | | 0.52 | °C/W |
| R th(c-h) | Thermal impedance | Case to heatsink | | 0.20 | °C/W |
| Тj | Max. junction temperature | | | 125 | °C |
| T stg | Storage temperature | | | -40 125 | °C |
| М | Mounting torque | | | 4 | NM |
| W | Weight (Approx.) | | | 25 | gm |

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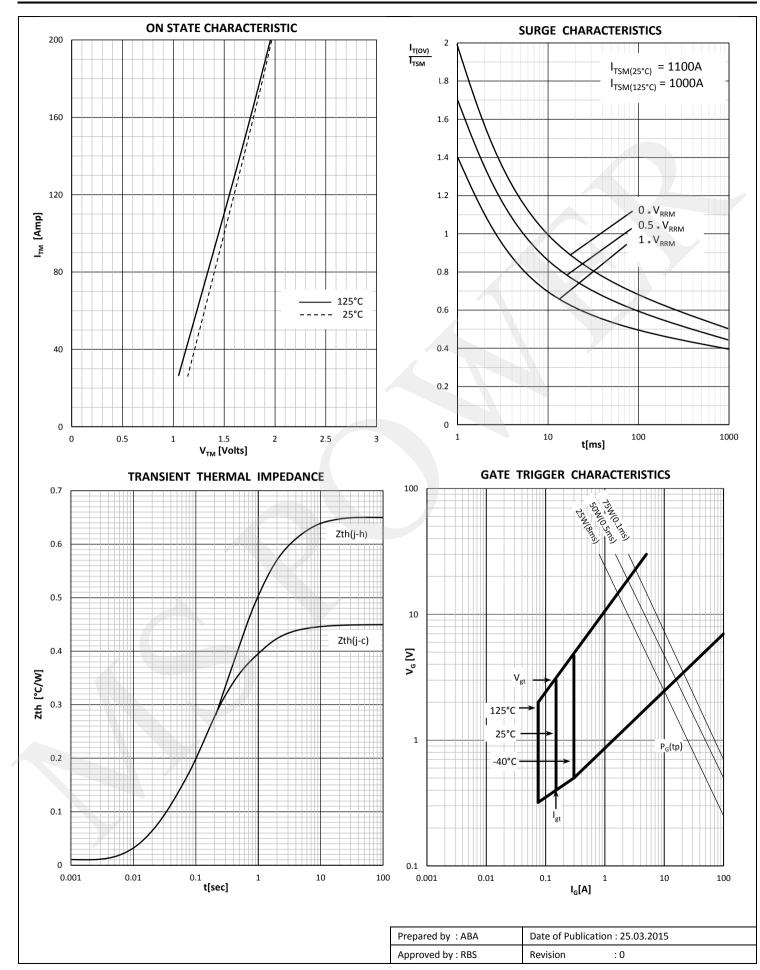
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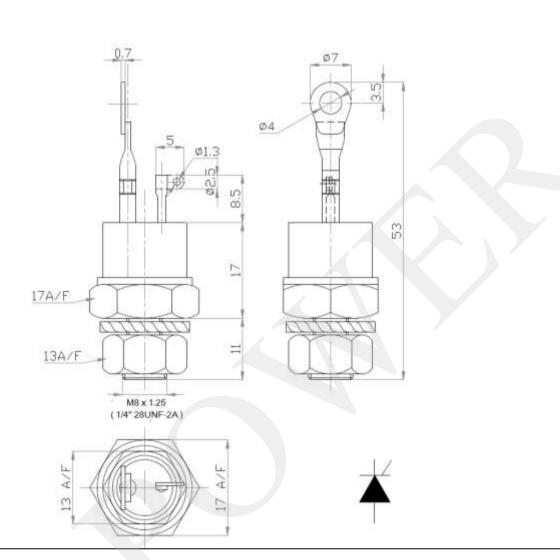




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Outline





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