MS D1201





Key Parameters

| Ney raian | |
|--------------------|----------|
| VRRM | = 2400V |
| F(AV) | = 1200A |
| IFSM | = 10000A |
| V _{F(TO)} | = 0.83V |
| ΓF | = 0.44mΩ |

Features

- Full blocking capability over wide temperature range
- Hermetically sealed ceramic package
- High case non-rupture current

ApplicationsPower Supplies

- Uncontrolled Rectifiers .
- Welding
- Induction Heating / Melting

Ordering Information

| MS D | 1201 | С | ХХ |
|---|--------------|--|---|
| Rectifier Diode | Current code | C - Capsule package with Alloyed silicon technology | Voltage Code Code X 100 = V _{RRM} |
| Order Code MS D1201C24 : 2400V V _{RRM} , Capsule Diode | | | |

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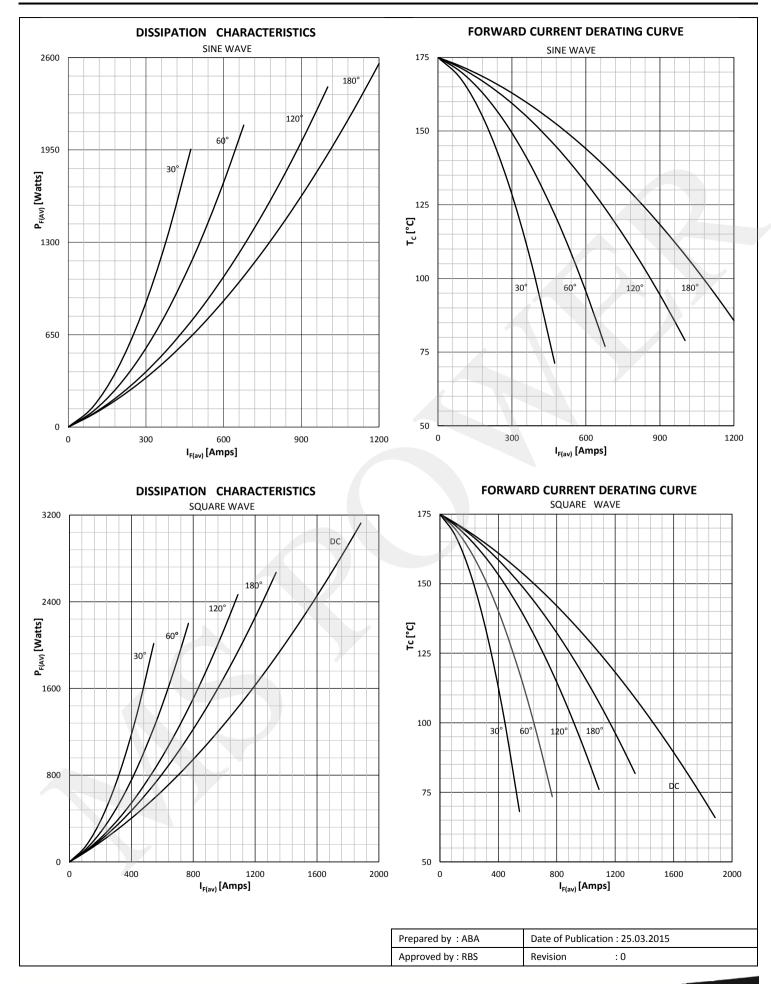
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| Symbol | Characteristic | Conditions | Tj [°C] | Value | Unit |
|----------------|-------------------------------------|--|-------------------------|------------------------------|------------------|
| BLOCK | NG | | | | |
| V RRM | Repetitive peak reverse voltage | | 175 | 1800 - 2400 | V |
| V RSM | Non-repetitive peak reverse voltage | | 175 | 2000 - 2600 | V |
| I RRM | Repetitive peak reverse current | V= V rrm | 175 | 50 | mA |
| CONDU | CTING | | | | |
| IF(AV) | Mean forward current | 180° sin,50 Hz, $T_{\rm c}{=}85^{\circ}C$, double side cooled | | 1200 | А |
| I FRMS | RMS current | T_c =85°C , double side cooled | | 1884 | А |
| 1 | Current forward average | Sine wave, 10 ms | 25 | 10000 | Α |
| I FSM | Surge forward current | Without reverse voltage | 175 | 8500 | А |
| | | Sine wave, 10 ms | 25 | 500 x 10 ³ | A²s |
| l² t | l² t | Without reverse voltage | 175 | 361 x 10 ³ | A ² s |
| VF | Forward voltage | On-state current = 1500A | 175 | 1.55 | v |
| V F(TO) | Threshold voltage | | 175 | 0.83 | V |
| r _F | Forward slope resistance | | 175 | 0.44 | mΩ |
| | | | | | |
| R th(j-c) | NG Thermal impedance, sin 180° | Junction to case, double side cooled | | 0.035 | °C/W |
| R th(c-h) | Thermal impedance | Case to heatsink, double side cooled | | 0.033 | °C/W |
| T j | Max. junction temperature | Case to heatslink, double side cooled | | 175 | °C |
| T stg | Storage temperature | | | -40 175 | °C |
| M | Clamping force | | | 9 - 11 | KN |
| W | Weight (Approx.) | | | 110 | gm |
| | | | | | |
| | | | | | |
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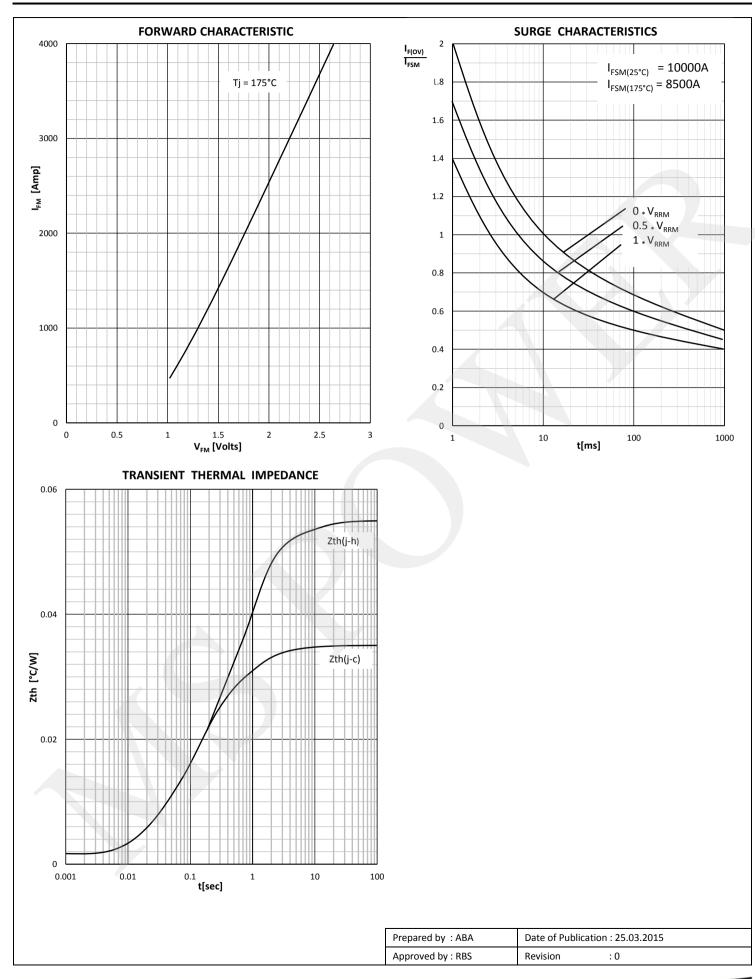
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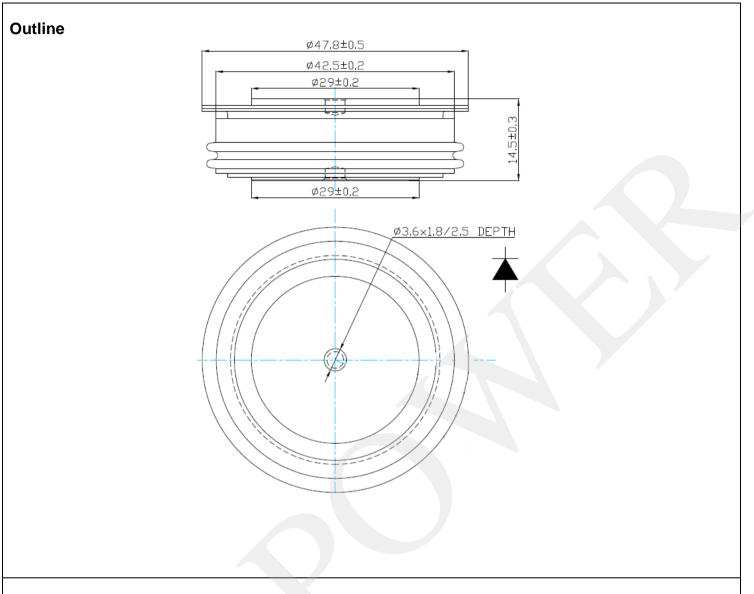
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