MS D1108





Key Parameters

 V_{RRM} = 1800V= 1108AI_{F(AV)} = 12000A**I**FSM $V_{F(TO)}$ = 0.78 V $= 0.35 \text{m}\Omega$ ГF

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 | 1108 | С | XX |
|---|--------------|--|---|
| Rectifier Diode | Current code | C - Capsule package with Alloyed silicon technology | Voltage Code Code X 100 = V _{RRM} |
| Order Code MS D1108C18: 1800V VRRM, Capsule Diode | | | |

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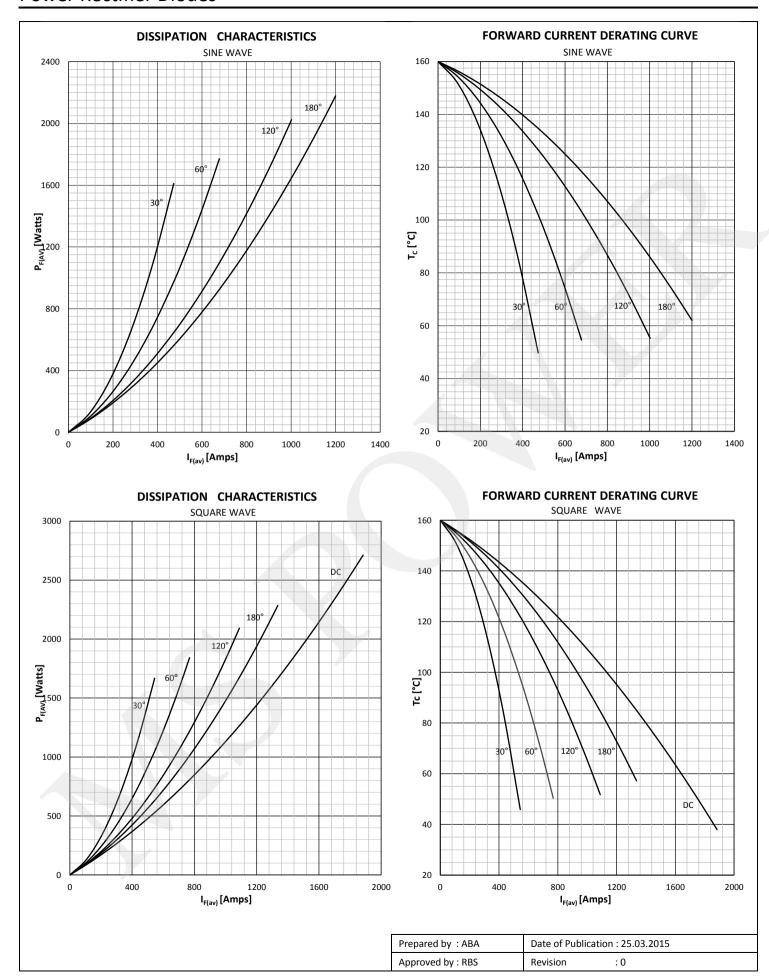


| Symbol | Characteristic | Conditions | Tj [°C] | Value | Unit |
|----------------|-------------------------------------|---|------------|-----------------------|------------------|
| BLOCKI | NG | | | | |
| V RRM | Repetitive peak reverse voltage | | 160 | 200 - 1800 | V |
| V RSM | Non-repetitive peak reverse voltage | | 160 | 300 - 1900 | V |
| I RRM | Repetitive peak reverse current | V= V RRM | 160 | 30 | mA |
| CONDU | CTING | | | | |
| l F (AV) | Mean forward current | 180° sin,50 Hz, T_c =85°C , double side cooled 180° sin,50 Hz, T_c =62°C , double side cooled | | 1108 1200 | А |
| I FRMS | RMS current | T_c =62°C , double side cooled | | 1884 | Α |
| Leon | Surge forward current | Sine wave, 10 ms Without reverse voltage | 25 | 12000 | A |
| I FSM | | | 160 | 11000 | Α |
| | l² t | Sine wave, 10 ms Without reverse voltage | 25 | 720 x 10 ³ | A ² s |
| l² t | | | 160 | 605 x 10 ³ | A ² s |
| VF | Forward voltage | On-state current = 3000A | 160 | 1.83 | V |
| V F(TO) | Threshold voltage | | 160 | 0.78 | V |
| r _F | Forward slope resistance | | 160 | 0.35 | mΩ |
| MOUNTI | NG | | | | |
| R th(j-c) | Thermal impedance, sin 180° | Junction to case, double side cooled | | 0.045 | °C/W |
| R th(c-h) | Thermal impedance | Case to heatsink, double side cooled | | 0.015 | °C/W |
| Тj | Max. junction temperature | | | 160 | °C |
| T stg | Storage temperature | | | -40 160 | °C |
| М | Clamping force | | | 8.0 | KN |
| W | Weight (Approx.) | | | 90 | gm |

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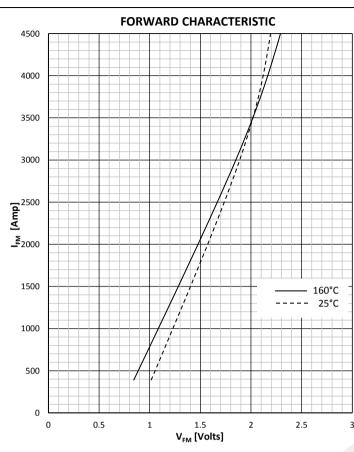
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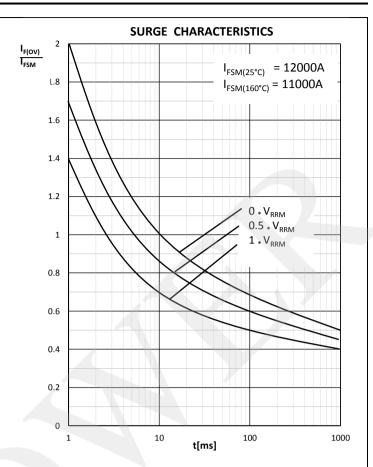


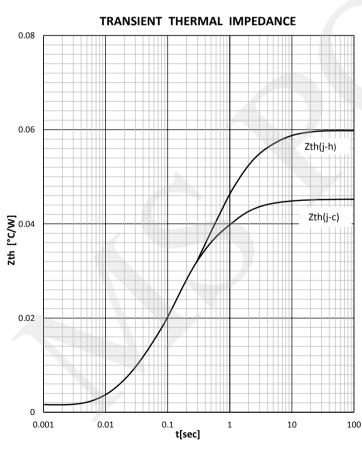


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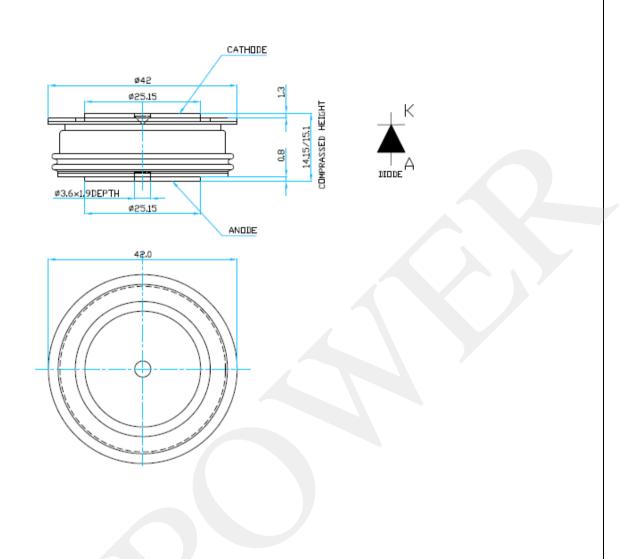


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