MS DW13501





Key Parameters

 V_{RRM} = 400V $I_{F(AV)}$ = 13500A I_{FSM} = 88000A $V_{F(TO)}$ = 0.76V I_{F} = 0.021m Ω

Features

- Full blocking capability over wide temperature range
- Very low thermal resistance
- High Forward current capability
- Very low threshold voltage and slope resistance

Applications

- Uncontrolled Rectifiers
- Welding

Ordering Information

| MS DW | 13501 | С | XX |
|---|-----------------|---|---|
| Welding Diode | Current code | C - Capsule package with Alloyed silicon technology | Voltage Code Code X 100 = V _{RRM} |
| Order Code MS DW13501C04 : 400V VRRM, Capsule Welding Diode | | | |

| Prepared by : ABA | Date of Publication : 25.03.2015 | |
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| Approved by : RBS | Revision | : 0 |

Technical Information Welding Diodes

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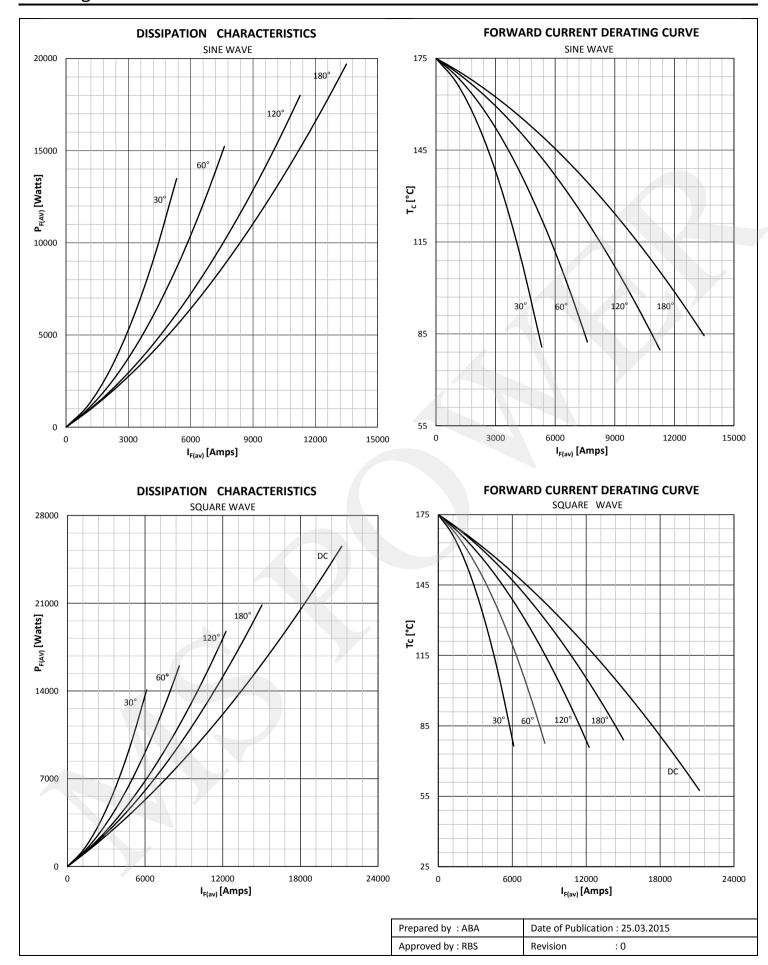
| Symbol | Characteristic | Conditions | Tj [°C] | Value | Unit |
|----------------|-------------------------------------|---|------------|-------------------------|------------------|
| BLOCKI | NG | | | | |
| V RRM | Repetitive peak reverse voltage | | 175 | 200 - 400 | V |
| V RSM | Non-repetitive peak reverse voltage | | 175 | 200 - 400 | V |
| I RRM | Repetitive peak reverse current | V= V RRM | 175 | 75 | mA |
| CONDU | CTING | | | | |
| l F (AV) | Mean forward current | 180° sin,50 Hz, T _c =85°C , double side cooled | | 13500 | А |
| I FRMS | RMS current | | | 21195 | А |
| 1 | 0 | Sine wave, 10 ms | 25 | 88000 | Α |
| I FSM | Surge forward current | Without reverse voltage | 175 | 85000 | Α |
| | | Sine wave, 10 ms | 25 | 38720 x 10 ³ | A ² s |
| l² t | ² | Without reverse voltage | 175 | 36125 x 10 ³ | A ² s |
| VF | Forward voltage | On-state current = 6000A | 25 | 1.01 | V |
| V F(TO) | Threshold voltage | | 175 | 0.76 | ٧ |
| r _F | Forward slope resistance | | 175 | 0.021 | mΩ |
| MOUNTI | NG | | | | |
| R th(j-c) | Thermal impedance, sin 180° | Junction to case, double side cooled | | 0.0046 | °C/W |
| R th(c-h) | Thermal impedance | Case to heatsink, double side cooled | | 0.0026 | °C/W |
| Тj | Max. junction temperature | | | 175 | °C |
| T stg | Storage temperature | | | -40 175 | °C |
| М | Clamping force | | | 35 - 40 | KN |
| W | Weight (Approx.) | | | 140 | gm |

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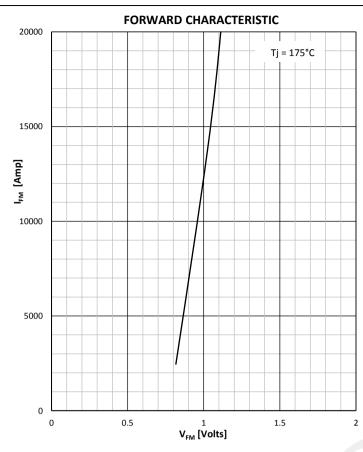


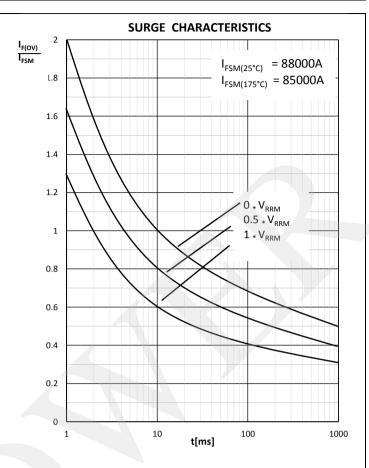


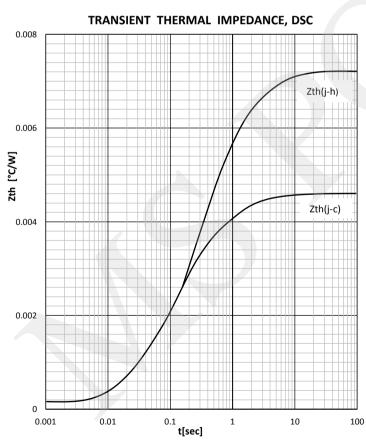
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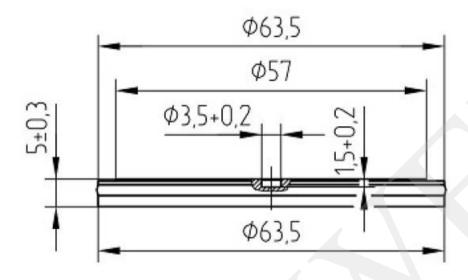


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