MS D254





Features

- Full blocking capability over wide temperature rangePressure contacts technology for high reliability

Key Parameters

ApplicationsPower Supplies

- Uncontrolled Rectifiers
- Battery Chargers

Ordering Information

| MS D | 254 | N | ХХ | М | К | | | | | |
|--|-----------------|--|---|------------------------------|---|--|--|--|--|--|
| Rectifier Diode | Current code | Polarity R= Stud Anode N= Stud Cathode | Voltage Code Code X 100 = V _{RRM} | Stud Threads M = M12x1.75 | Technology K = Pressure Contact Technology | | | | | |
| Order Code MS D254N18MK : 1800V V RRM, M12 Stud, Diode with stud Cathode | | | | | | | | | | |
| | | | | | | | | | | |
| | | | Pr | epared by : ABA | Date of Publication : 02.2020 | | | | | |
| | | | Ap | proved by : RBS | Revision : 0 | | | | | |

1

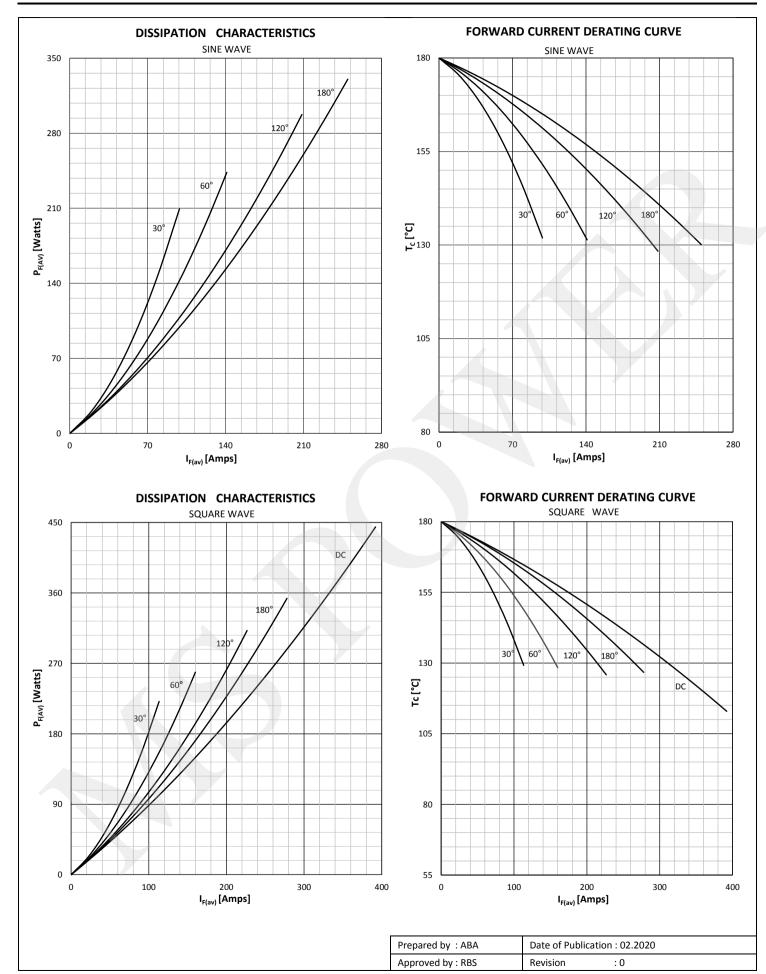
MS D254



| Symbol | Characteristic | Conditions | Тј [°С] | Value | Unit |
|----------------|-------------------------------------|---|------------|--------------------|------------------|
| BLOCKI | NG | | | | |
| V RRM | Repetitive peak reverse voltage | | 180 | 1800 | V |
| V RSM | Non-repetitive peak reverse voltage | | 180 | 1900 | V |
| 1.0014 | Denetitive peok reverse ourrent | V= V rrm | 25 | 5 | mA |
| I RRM | Repetitive peak reverse current | V = V RRM | 180 | 30 | mA |
| CONDU | CTING | | | | |
| IF(AV) | Mean forward current | 180° sin ,50 Hz, T _c =130°C | | 250 | А |
| I FRMS | RMS current | T _c =130°C | | 392 | Α |
| I FSM | Surge forward surrent | Sine wave, 10 ms Without reverse voltage | 25 | 6300 | А |
| | Surge forward current | | 180 | 5300 | А |
| l² t | | Sine wave, 10 ms | 25 | 198450 | A ² s |
| | l ² t | Without reverse voltage | 180 | 140450 | A²s |
| VF | Forward voltage | On-state current = 800A | 180 | 1.57 | V |
| V F(TO) | Threshold voltage | 1 | 180 | 0.80 | V |
| r _F | Forward slope resistance | | 180 | 0.85 | mΩ |
| MOUNTI | NG | | | | |
| R th(j-c) | Thermal impedance, sin 180° | Junction to case | | 0.151 | °C/W |
| R th(c-h) | Thermal impedance | Case to heatsink | | 0.04 | °C/W |
| Tj | Max. junction temperature | | | 180 | °C |
| T stg | Storage temperature | | | -40 180 | °C |
| М | Mounting torque | | | 26 | NM |
| W | Weight (approx.) | | | 300 | gm |
| | | | | | |
| | | | | | |
| | | Prepared by : ABA | | lication : 02.2020 | |
| | | Approved by : RBS | Revision | : 0 | |

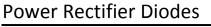
MS D254

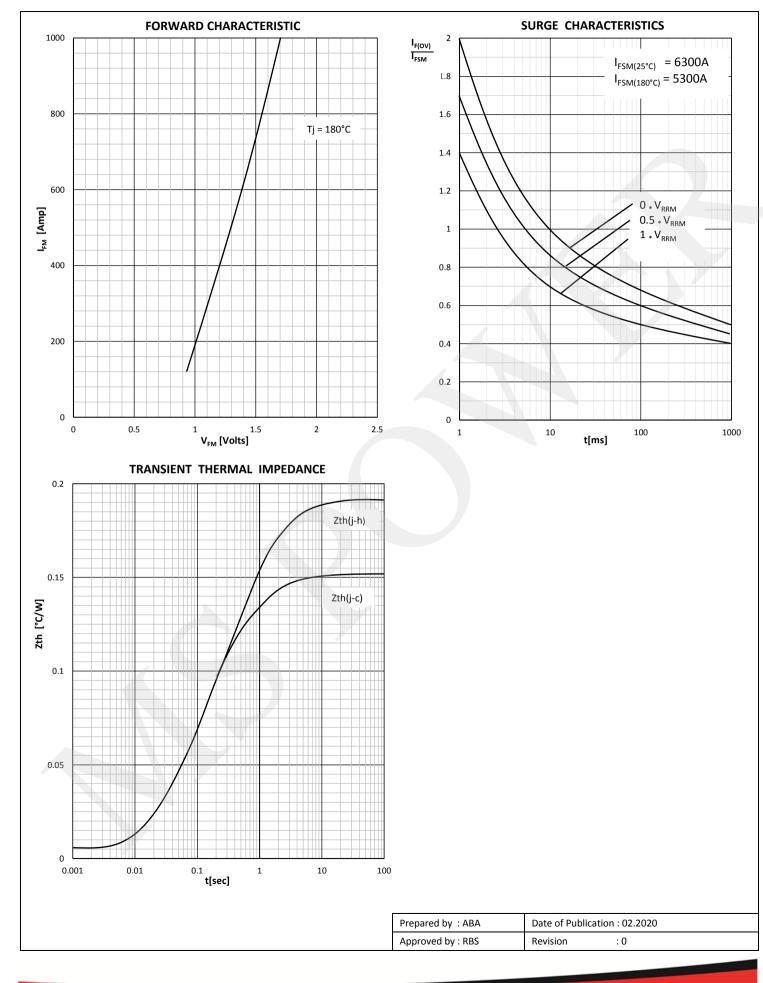




MS D254







Outline

ΠT

M12x1.75

33 A/F

63,5

5

MS D254

MS Power GmbH

Mergenthalerallee 79-81 65760 Eschborn, Germany Web: www.mspowergroup.com Mail: info@mspowergroup.de

Sales & Enquiry:

sales@mspowergroup.de Technical Support: solution@mspowergroup.de After sales Service: service@mspowergroup.de

Phone: +49 (0) 6196/7768 666 Fax: +49 (0) 6196/7757 888



N power

| Prepared by : ABA | Date of Publication : 02.2020 | | |
|-------------------|-------------------------------|--|--|
| Approved by : RBS | Revision : 0 | | |

MS D254



Terms & Conditions of usage :

The data contained in this product datasheet is exclusively Intended for technically trained staff. You and your technical departments will have to evaluate the suitability of the product for the intended application and the completeness of the product data with respect to such application. This product datasheet is describing the characteristics of this product for which a warranty is granted. Any such warranty is granted exclusively pursuant the terms and conditions of the supply agreement. There will be no guarantee of any kind for the product and its characteristics. The information in the valid application-and assembly notes of the device must be considered.

Should you require product information in excess of the data given in this product datasheet or which concerns the specific application of our product, please contact the sales office, which is responsible for you (see <u>www.mspowergroup.com</u>). For those that are specifically interested we may provide application notes.

Due to technical requirements our product may contain dangerous substances. For information on the types in question please contact the sales office, which is responsible for you.

Should you intend to use the Product in aviation applications, in health or live endangering or life support applications, please notify. Please note, that for any such applications we urgently recommend

-to perform joint Risk and Quality Assessments;

-the conclusion of Quality Agreements;

-to establish joint measures of an ongoing product survey, and that we may make delivery depended on the realization of any such measures.

If and to the extent necessary, please forward equivalent notices to your customers.

Changes of this product datasheet are reserved.

| Prepared by : ABA Date of Publication : 02.2020 | |
|---|--|
| Approved by : RBS Revision : 0 | |