

产品规格书

Specification of products

产品名称: 整流管模块

产品型号: MDK55A/3000V-Y01

浙江世菱半导体有限公司
ZHEJIANG SHILING SEMICONDUCTOR CO., LTD.

地址: 浙江省 丽水市 莲都区

电话: (0578) 3012571 3615078

传真: (0578) 3611180

邮编: 323000

E-mail: smrshiling01@163.com

Http://www.smrshiling.com

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| 拟制 | 审核 | 核准 |
| 林益龙 | 曹剑龙 | 宗瑞 |

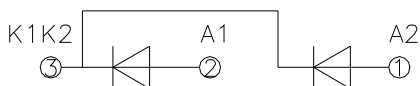
| SYMBOL | CHARACTERISTIC | TEST CONDITIONS | T _j (°C) | VALUE | | | UNIT |
|----------------------|--|---|---------------------|-------|------|-------|------|
| | | | | Min | Type | Max | |
| I _{F(AV)} | Mean forward current | 180° half sine wave 50Hz Single side cooled, T _C =100°C | 150 | | | 55 | A |
| I _{F(RMS)} | RMS forward current | Single side cooled, T _C =100°C | 150 | | | 86 | A |
| V _{RRM} | Repetitive peak reverse voltage | V _{RRM} tp=10ms V _{RSM} = V _{DRM} &V _{RRM} +200V | 150 | | 3000 | | V |
| I _{RRM} | Repetitive peak current | at V _{RRM} | 150 | | | 8 | mA |
| I _{FSM} | Surge forward current | 10ms half sine wave | 150 | | | 1.32 | KA |
| I ² t | I ² T for fusing coordination | V _R =0.6V _{RRM} | | | | | 8.6 |
| V _{FO} | Threshold voltage | | 150 | | | 0.80 | V |
| r _F | Forward slop resistance | | | | | | 3.4 |
| V _{FM} | Peak forward voltage | I _{FM} =170A | 25 | | | 1.40 | V |
| R _{th(j-c)} | Thermal resistance Junction to heatsink | At 180° sine Single side cooled | | | | 0.120 | °C/W |
| V _{iso} | Isolation voltage | 50Hz, RM. S, t=1min, I _{iso} : 1mA(max) | | 4000 | | | V |
| F _m | Terminal connection torque(M6) | | | | 5.0 | | N.m |
| | Mounting torque(M6) | | | | 5.0 | | N.m |
| T _{stg} | Stored temperature | | | -40 | | 125 | °C |
| W _t | Weight | | | | 400 | | g |
| Outline | | | | | | | |

OUTLINE DRAWING & CIRCUIT DIAGRAM

MDK



MDK-1



Rating and Characteristic

Peak forward Voltage Vs. Peak forward Current

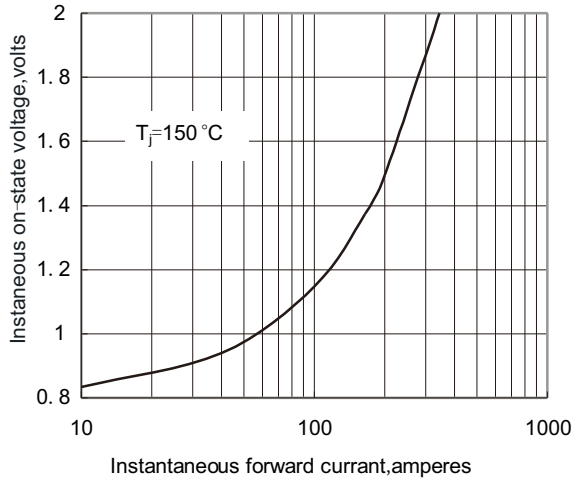


Fig. 1

Max junction To case Thermal Impedance Vs. Time

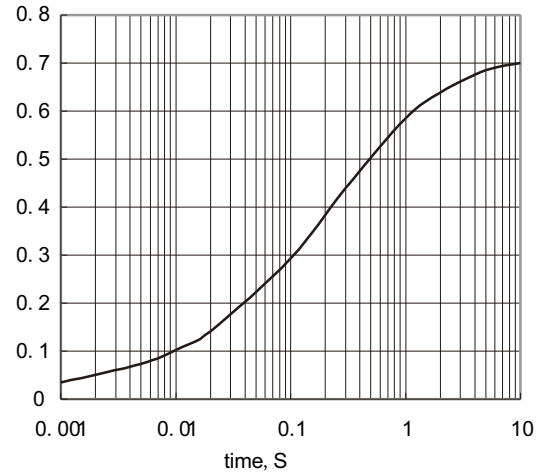


Fig. 2

Max. Power Dissipation Vs. Mean forward Current

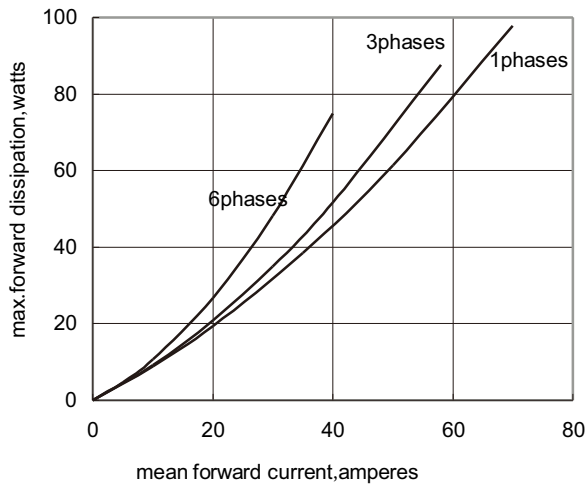


Fig. 3

Max. case Temperature Vs. Mean forward Current

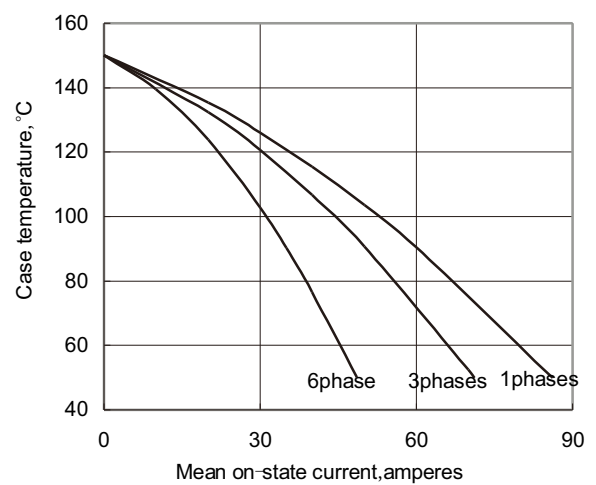


Fig. 4

Max. Power Dissipation Vs. Mean forward Current

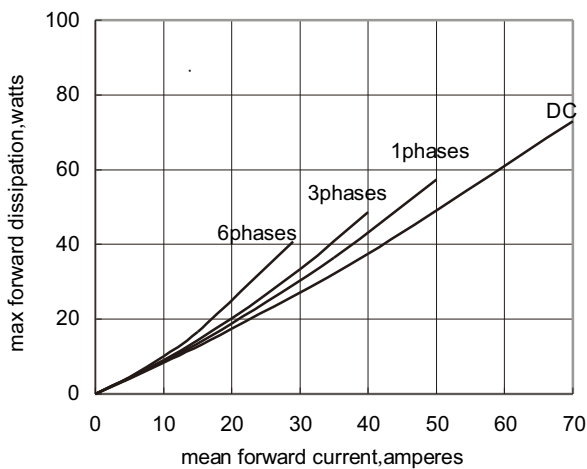


Fig. 5

Max. case Temperature Vs. Mean forward Current

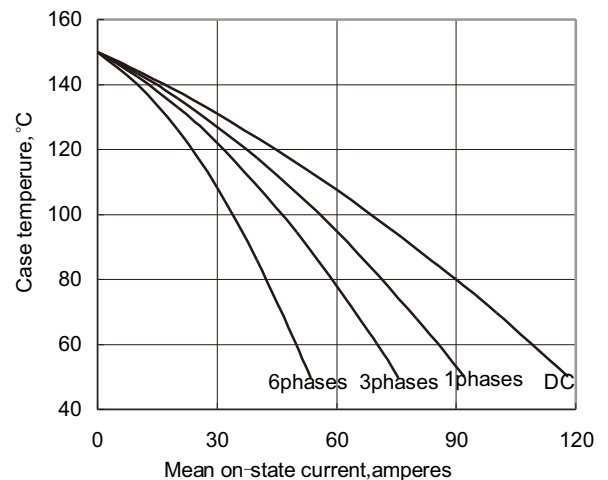


Fig. 6

Outside Dimension

