



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components
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MD200K08D2
MD200K12D2
MD200K16D2
MD200K18D2

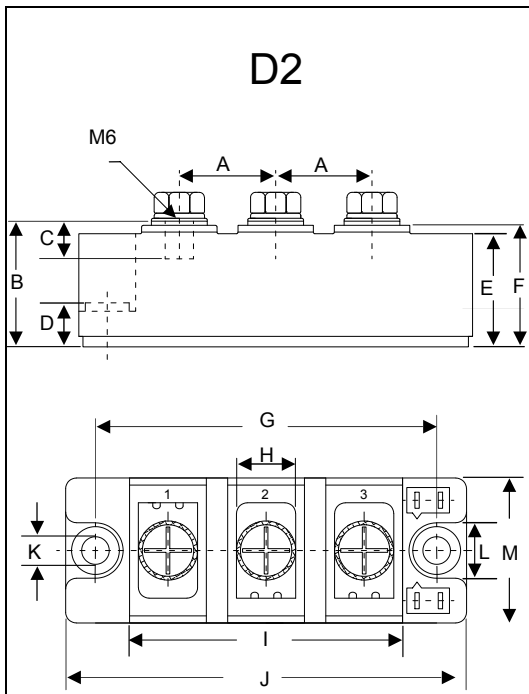
Features

- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Blocking Voltage: 800 to 1800V
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip

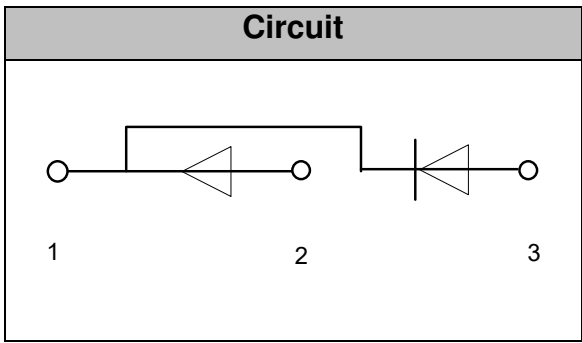
Applications

- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

200 Amp
GLASS PASSIVATED
RECTIFIER DIODE
MODULES
800~1800 Volts



| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|-------|-------|------|
| | MIN | MAX | MIN | MAX | |
| A | .894 | .917 | 22.70 | 23.30 | |
| B | 1.169 | 1.193 | 29.70 | 30.30 | |
| C | .343 | .366 | 8.70 | 9.30 | |
| D | .323 | .343 | 8.20 | 8.70 | |
| E | 1.051 | 1.075 | 26.70 | 27.30 | |
| F | 1.130 | 1.154 | 28.70 | 29.30 | |
| G | .120 | .130 | 79.70 | 80.30 | |
| H | .500 | .524 | 12.70 | 13.30 | |
| I | 2.501 | 2.531 | 63.70 | 64.30 | |
| J | 3.689 | 3.713 | 93.70 | 94.30 | |
| K | .256 | | 6.50 | | ∅ |
| L | .500 | .524 | 12.70 | 13.30 | |
| M | 1.327 | 1.350 | 33.70 | 34.30 | |



Module Type

| TYPE | VRRM | VRSM |
|------------|-------|-------|
| MD200K08D2 | 800V | 900V |
| MD200K12D2 | 1200V | 1300V |
| MD200K16D2 | 1600V | 1700V |
| MD200K18D2 | 1800V | 1900V |

Maximum Ratings

| Symbol | Conditions | Values | Units |
|-------------------|---|------------|------------------|
| IFAV | Single phase ,half wave 180° conduction Tc=95°C | 200 | A |
| IFSM | t=10mS Tvj =45°C | 6800 | A |
| i ² t | t=10mS Tvj =45°C | 231200 | A ² s |
| V _{isol} | a.c.50HZ;r.m.s.;1min | 3000 | V |
| Tvj | | -40 to 150 | °C |
| Tstg | | -40 to 125 | °C |
| Mt | To terminals(M6) | 5±15% | Nm |
| Ms | To heatsink(M6) | 5±15% | Nm |
| Weight | Module (Approximately) | 160 | g |

Thermal Characteristics

| Symbol | Conditions | Values | Units |
|----------------------|------------|--------|-------|
| R _{th(j-c)} | Per diode | 0.18 | °C/W |
| R _{th(c-s)} | Module | 0.05 | °C/W |

Electrical Characteristics

| Symbol | Conditions | Values | | | Units |
|-----------------|---|--------|------|------|-------|
| | | Min. | Typ. | Max. | |
| V _{FM} | T=25°C I _F =300A | — | 1.18 | 1.30 | V |
| I _{RD} | Tvj=150°C V _{RD} =V _{RRM} | — | — | 9 | mA |
| r _f | T _J =25°C | | 1.13 | | mΩ |
| V _{fO} | | | 0.84 | | V |

Performance Curves

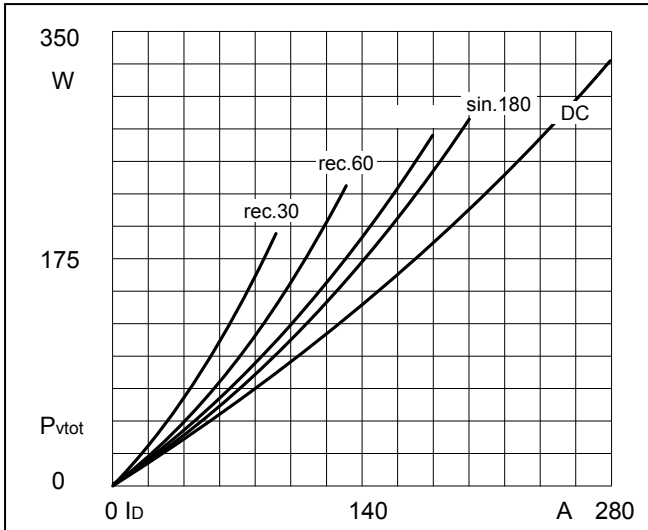


Fig1. Power dissipation

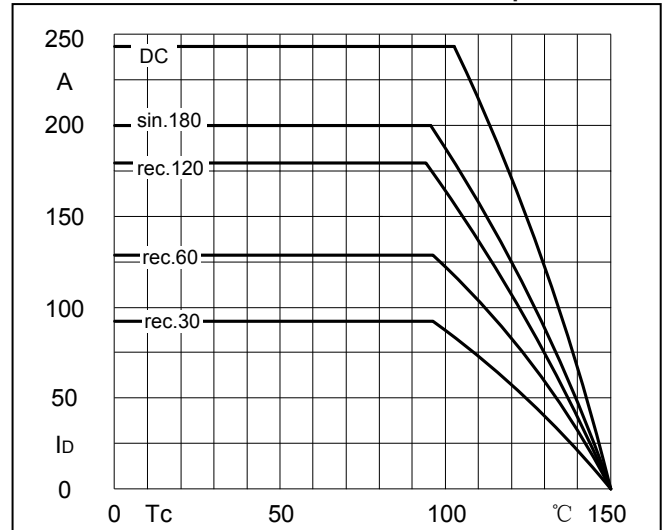


Fig2. Forward Current Derating Curve

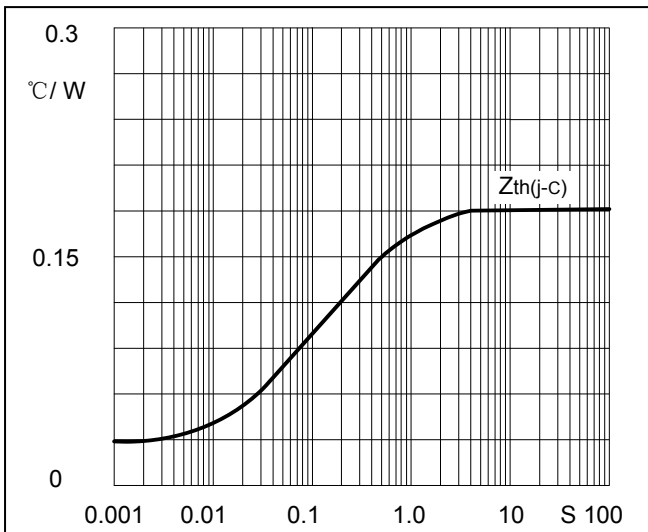


Fig3. Transient thermal impedance

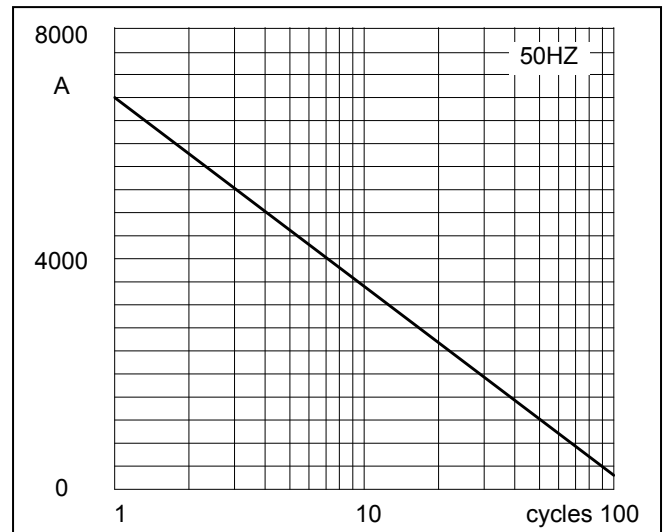


Fig4. Max Non-Repetitive Forward Surge Current

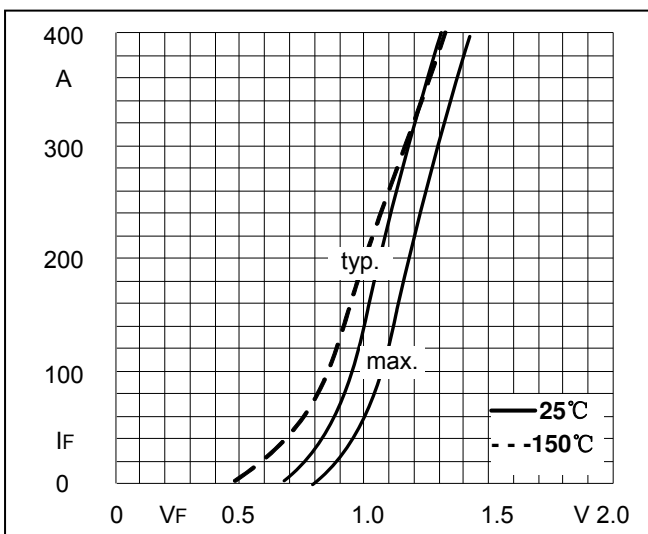


Fig5. Forward Characteristics



Micro Commercial Components

Ordering Information :

| Device | Packing |
|----------------|---------------------------|
| Part Number-BP | Bulk: 8PCS/BOX ;80PCS/CTN |

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