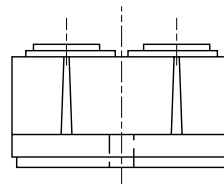
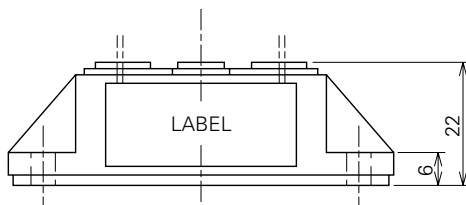
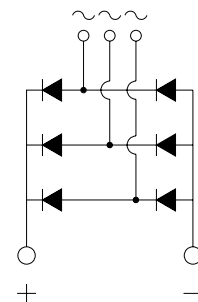


PRELIMINARY

Notice: This is not a final specification.
Some parametric limits are subject to change.

**MEDIUM POWER GENERAL USE
INSULATED TYPE**

-
- Technical drawing of a rectangular plate with the following dimensions and features:
- Overall width: 70
 - Overall height: 40
 - Top edge dimensions (from left to right): 13.5, 15, 15, 8
 - Right edge dimensions (from top to bottom): 18, 20
 - Bottom edge dimensions (from left to right): 14.5, 28, 10
 - Internal width dimensions: 57 (total), 28 (between central features)
 - Internal height dimensions: 20 (between central features)
 - Features:
 - Two $\phi 4.5$ holes on the right side.
 - Five $M4$ holes (labeled 5-M4) distributed across the plate.
 - Central features marked with ϕ and $+$ symbols.



RM20TPM-M,-H

MEDIUM POWER GENERAL USE
INSULATED TYPE

ABSOLUTE MAXIMUM RATINGS

| Symbol | Parameter | Voltage class | | Unit |
|--------|-------------------------------------|---------------|-----|------|
| | | M | H | |
| VRRM | Repetitive peak reverse voltage | 400 | 800 | V |
| VRSM | Non-repetitive peak reverse voltage | 500 | 900 | V |
| Ea | Recommended AC input voltage | 110 | 220 | V |

| Symbol | Parameter | Conditions | Ratings | Unit |
|-----------------------------|--|--|-----------------------|------------------|
| Io | DC output current | Three-phase full wave rectifying circuit, Tc=125°C | 40 | A |
| IFSM | Surge (non-repetitive) forward current | One half cycle at 60Hz, peak value | 400 | A |
| I ² _t | I ² _t for fusing | Value for one cycle of surge current | 4.2 × 10 ³ | A ² s |
| f | Maximum operating frequency | | 1000 | Hz |
| Tj | Junction temperature | | -40~+150 | °C |
| Tstg | Storage temperature | | -40~+125 | °C |
| Viso | Isolation voltage | Charged part to case | 2500 | V |
| — | Mounting torque | Main terminal screw M4 | 0.98~1.47 | N·m |
| | | | 10~15 | kg·cm |
| | | Mounting screw M4 | 0.98~1.47 | N·m |
| | | | 10~15 | kg·cm |
| — | Weight | Typical value | 100 | g |

ELECTRICAL CHARACTERISTICS

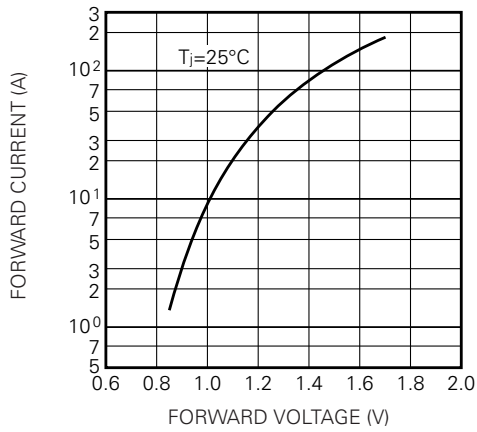
| Symbol | Parameter | Test conditions | Limits | | | Unit |
|-----------|----------------------------|---|--------|------|------|------|
| | | | Min. | Typ. | Max. | |
| IRRM | Repetitive reverse current | Tj=150°C, VRRM applied | — | — | 10 | mA |
| VFM | Forward voltage | Tj=25°C, IFM=40A, instantaneous meas. | — | — | 1.2 | V |
| Rth (j-c) | Thermal resistance | Junction to case | — | — | 0.33 | °C/W |
| Rth (c-f) | Contact thermal resistance | Case to fin, conductive grease applied | — | — | 0.09 | °C/W |
| — | Insulation resistance | Measured with a 500V megohmmeter between main terminal and case | 10 | — | — | MΩ |

RM20TPM-M,-H

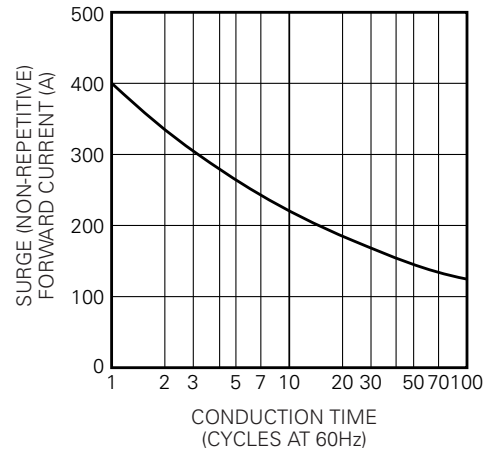
MEDIUM POWER GENERAL USE
INSULATED TYPE

PERFORMANCE CURVES

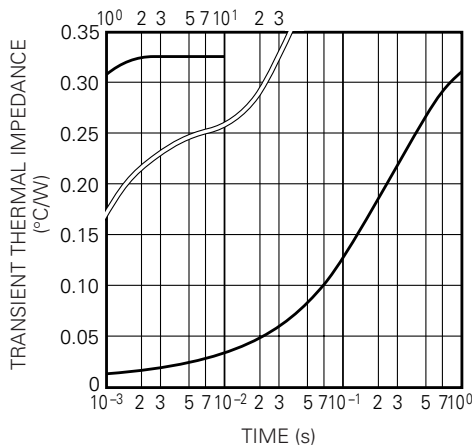
MAXIMUM FORWARD CHARACTERISTIC



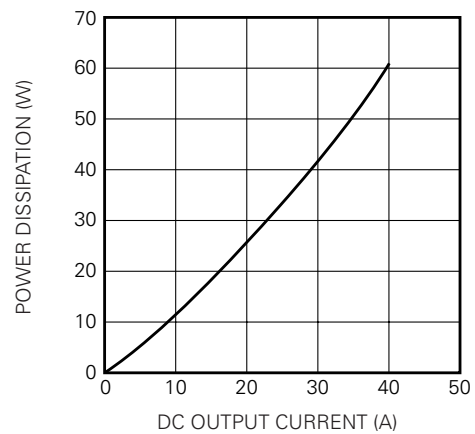
ALLOWABLE SURGE (NON-REPETITIVE)
FORWARD CURRENT



MAXIMUM TRANSIENT THERMAL IMPEDANCE
(JUNCTION TO CASE)



MAXIMUM POWER DISSIPATION



ALLOWABLE CASE TEMPERATURE
VS. DC OUTPUT CURRENT

