

RM20TPM-H

MEDIUM POWER GENERAL USE
INSULATED TYPE

RM20TPM-H



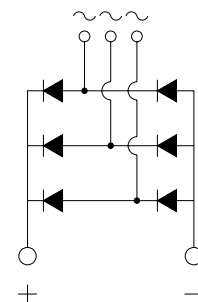
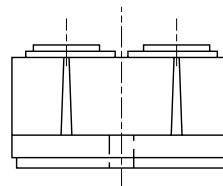
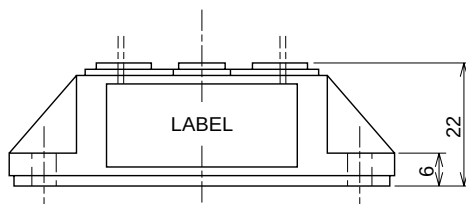
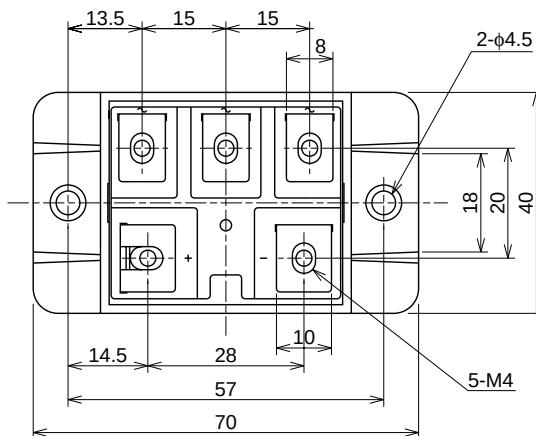
- **I_o** DC output current **40A**
- **V_{RRM}** Repetitive peak reverse voltage
..... **800V**
- **3 phase bridge**
- **Insulated Type**

APPLICATION

AC motor controllers, DC motor controllers, Battery DC power supplies,
DC power supplies for control panels, and other general DC power equipment

OUTLINE DRAWING & CIRCUIT DIAGRAM

Dimensions in mm



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INSULATED TYPE**ABSOLUTE MAXIMUM RATINGS**

Symbol	Parameter	Voltage class	Unit
		H	
VRRM	Repetitive peak reverse voltage	800	V
VRSM	Non-repetitive peak reverse voltage	900	V
Ea	Recommended AC input voltage	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

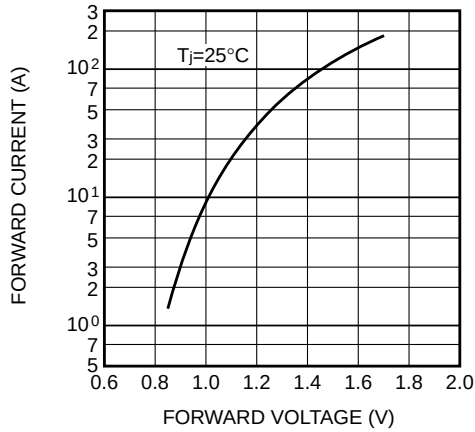
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
IRRM	Repetitive reverse current	Tj=150°C, VRRM applied	—	—	10	mA
VFM	Forward voltage	Tj=25°C, IFM=40A, instantaneous meas.	—	—	1.2	V
Rth (j-c)	Thermal resistance	Junction to case	—	—	0.33	°C/W
Rth (c-f)	Contact thermal resistance	Case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

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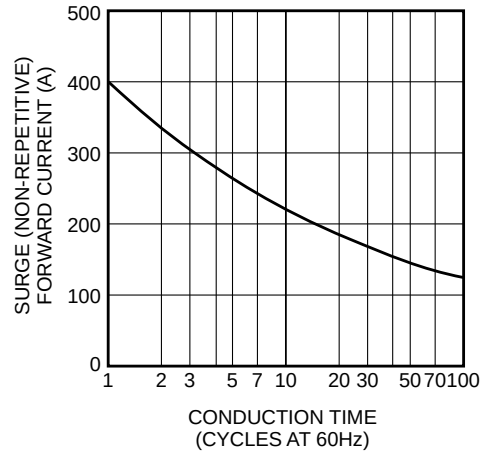
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PERFORMANCE CURVES

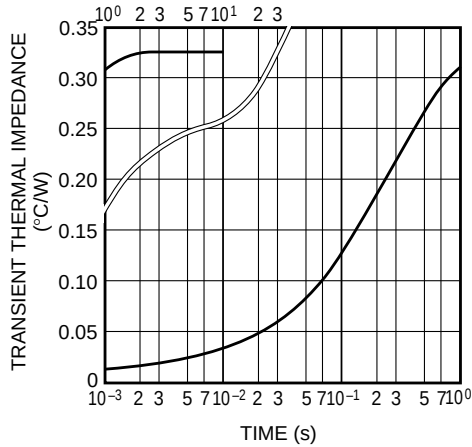
MAXIMUM FORWARD CHARACTERISTIC



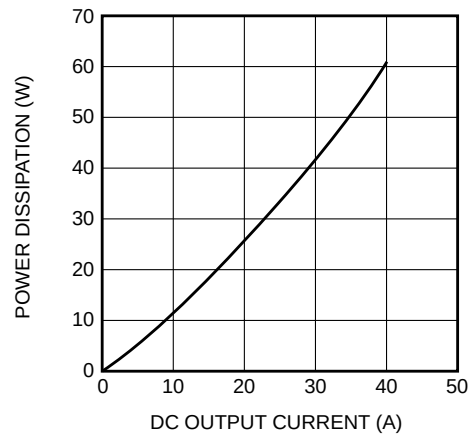
ALLOWABLE SURGE (NON-REPETITIVE)
FORWARD CURRENT



MAXIMUM TRANSIENT THERMAL IMPEDANCE
(JUNCTION TO CASE)



MAXIMUM POWER DISSIPATION



ALLOWABLE CASE TEMPERATURE
VS. DC OUTPUT CURRENT

