

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

MITSUBISHI DIODE MODULES

RM20TPM-24,-2H

HIGH VOLTAGE MEDIUM POWER GENERAL USE
 INSULATED TYPE

RM20TPM-24,-2H



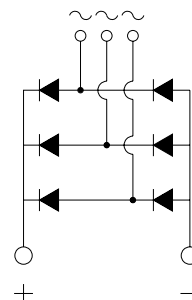
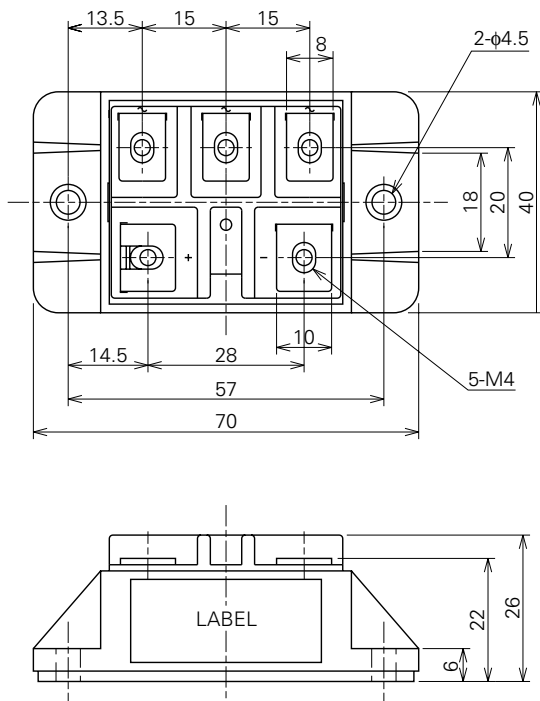
- **I_o** DC output current **40A**
- **V_{RRM}** Repetitive peak reverse voltage
 **1200/1600V**
- **3 phase bridge**
- **Insulated Type**

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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ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Voltage class		Unit
		24	2H	
VRRM	Repetitive peak reverse voltage	1200	1600	V
VRSM	Non-repetitive peak reverse voltage	1350	1700	V
Ea	Recommended AC input voltage	370	480	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	6.7×10 ²	A ² s
f	Maximum operating frequency		1000	Hz
T _j	Junction temperature		−40~150	°C
T _{stg}	Storage temperature		−40~125	°C
V _{iso}	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

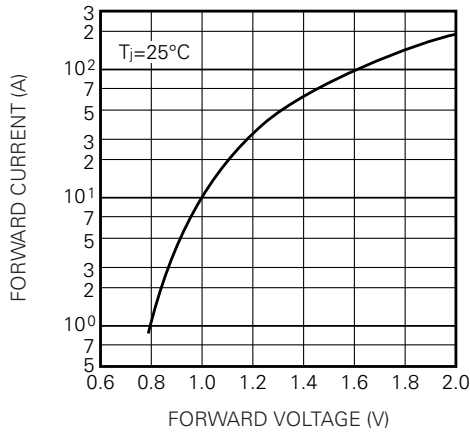
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
I _{RRM}	Repetitive reverse current	T _j =125°C, V _{RRM} applied	—	—	10	mA
V _{FM}	Forward voltage	T _j =25°C, I _{FM} =40A, instantaneous meas.	—	—	1.25	V
R _{th (j-c)}	Thermal resistance	Junction to case	—	—	0.35	°C/W
R _{th (c-f)}	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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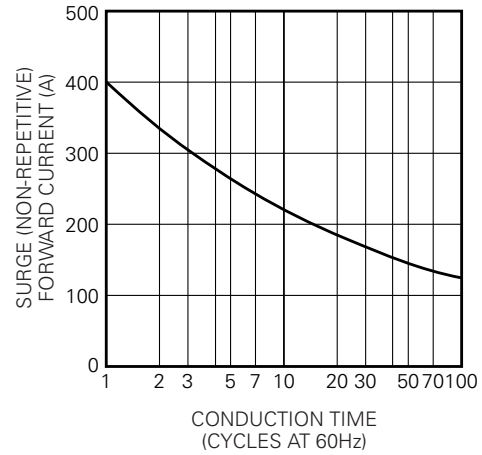
HIGH VOLTAGE MEDIUM POWER GENERAL USE
INSULATED TYPE

PERFORMANCE CURVES

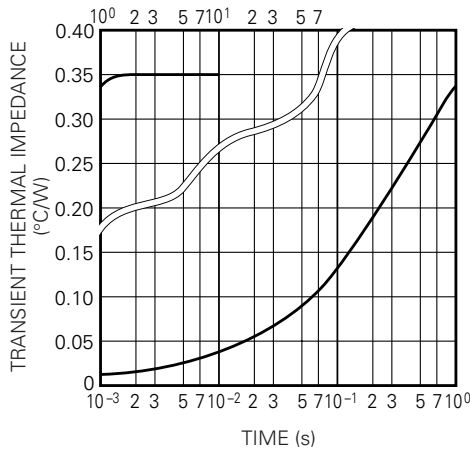
MAXIMUM FORWARD CHARACTERISTIC



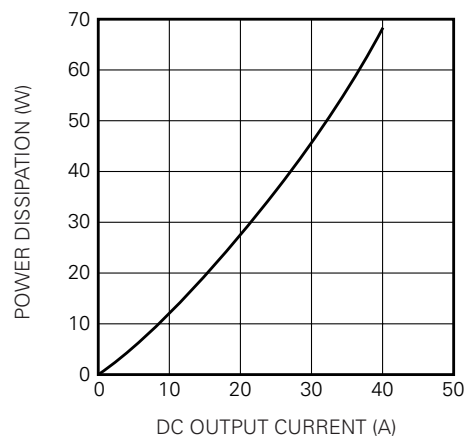
ALLOWABLE SURGE (NON-REPETITIVE)
FORWARD CURRENT



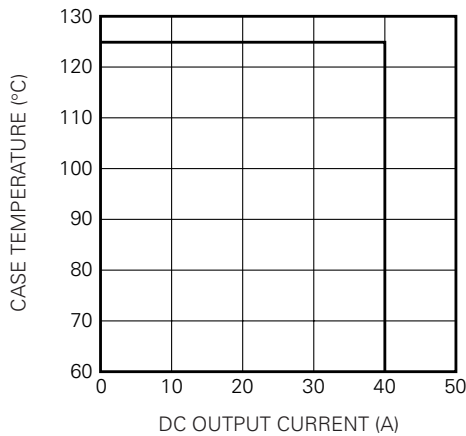
MAXIMUM TRANSIENT THERMAL IMPEDANCE
(JUNCTION TO CASE)



MAXIMUM POWER DISSIPATION



ALLOWABLE CASE TEMPERATURE
VS. DC OUTPUT CURRENT



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Datasheets for electronics components.