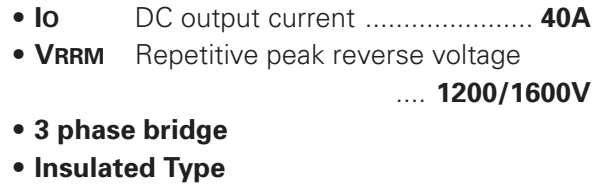


PRELIMINARY

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

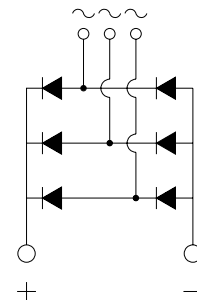
RM20TPM-24,-2H

RM20TPM-24,-2H



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

Dimensions in mm



RM20TPM-24,-2H

**HIGH VOLTAGE MEDIUM POWER GENERAL USE
INSULATED TYPE**

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

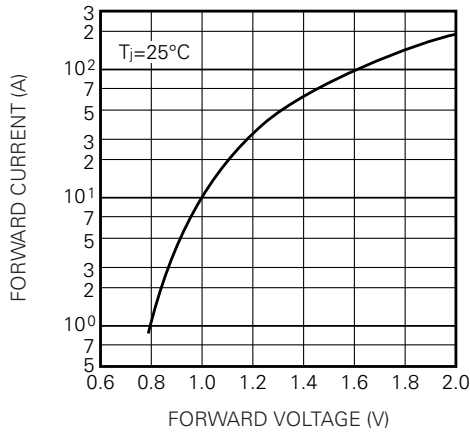
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
IRRM	Repetitive reverse current	T _j =125°C, VRRM applied	—	—	10	mA
VFM	Forward voltage	T _j =25°C, IFM=40A, instantaneous meas.	—	—	1.25	V
R _{th (j-c)}	Thermal resistance	Junction to case	—	—	0.35	°C/W
R _{th (c-f)}	Contact thermal resistance	Case to fin, conductive grease applied	—	—	0.09	°C/W
—	Insulation resistance	Measured with a 500V megohmmeter between main terminal and case	10	—	—	MΩ

RM20TPM-24,-2H

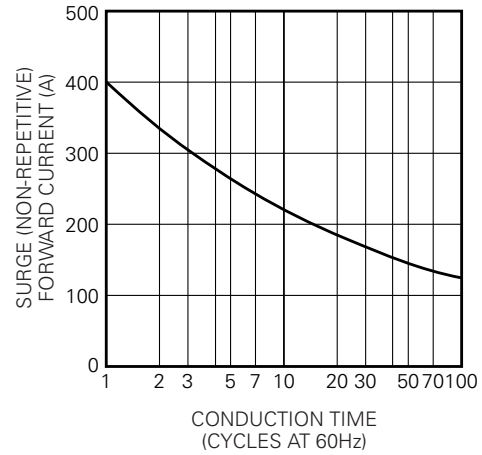
HIGH VOLTAGE MEDIUM POWER GENERAL USE
INSULATED TYPE

PERFORMANCE CURVES

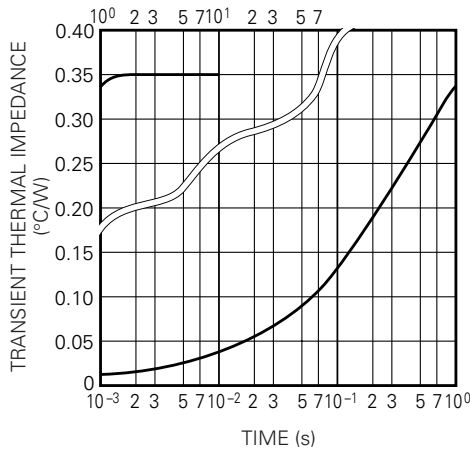
MAXIMUM FORWARD CHARACTERISTIC



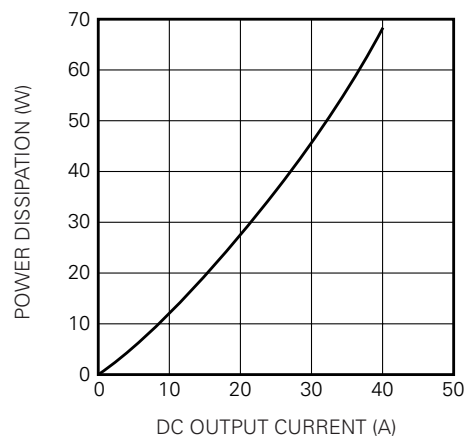
ALLOWABLE SURGE (NON-REPETITIVE)
FORWARD CURRENT



MAXIMUM TRANSIENT THERMAL IMPEDANCE
(JUNCTION TO CASE)



MAXIMUM POWER DISSIPATION



ALLOWABLE CASE TEMPERATURE
VS. DC OUTPUT CURRENT

