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MITSUBISHI DIODE MODULES

# RM20TA-24,-2H

HIGH VOLTAGE MEDIUM POWER GENERAL USE  
INSULATED TYPE

RM20TA-24,-2H



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

Yellow Card No. E80276 (N)

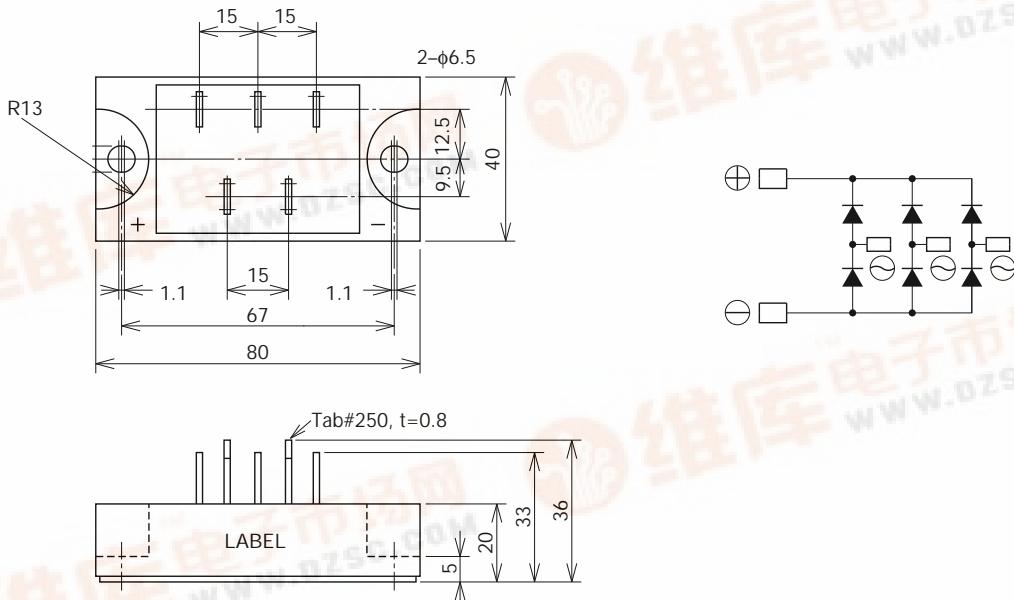
File No. E80271

## 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	
V <sub>RRM</sub>	Repetitive peak reverse voltage	1200	1600	V
V <sub>RSM</sub>	Non-repetitive peak reverse voltage	1350	1700	V
E <sub>a</sub>	Recommended AC input voltage	440	480	V

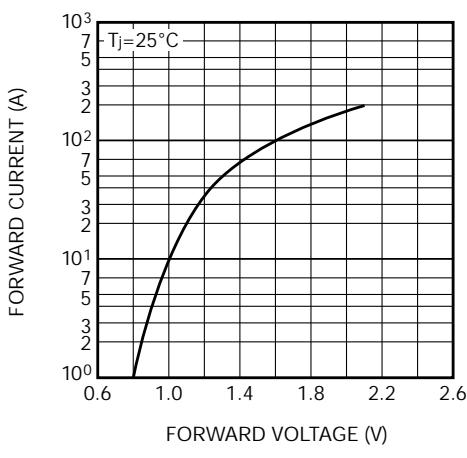
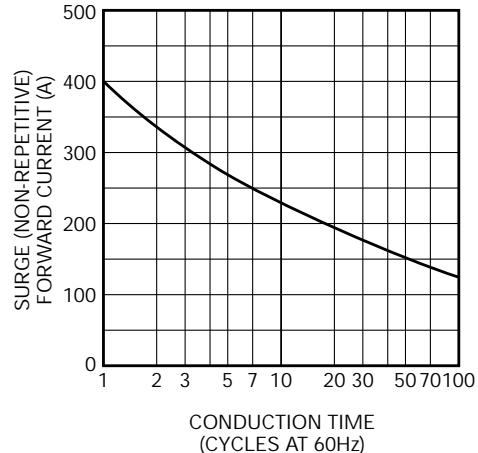
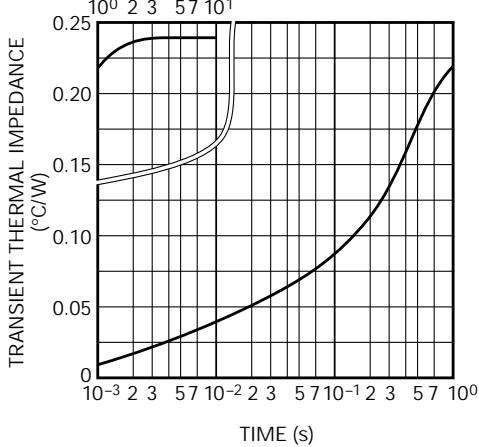
Symbol	Parameter	Conditions	Ratings	Unit
I <sub>o</sub>	DC output current	Three-phase full wave rectifying circuit, T <sub>c</sub> =100°C	40	A
I <sub>FSM</sub>	Surge (non-repetitive) forward current	One half cycle at 60Hz, peak value	400	A
I <sup>2</sup> t	I <sup>2</sup> t for fusing	Value for one cycle of surge current	6.7 × 10 <sup>2</sup>	A <sup>2</sup> s
f	Maximum operating frequency		1000	Hz
T <sub>j</sub>	Junction temperature		-40~+125	°C
T <sub>stg</sub>	Storage temperature		-40~+125	°C
V <sub>iso</sub>	Isolation voltage	Charged part to case	2500	V
—	Mounting torque	Mounting screw M6	1.96~2.94	N·m
			20~30	kg·cm
—	Weight	Typical value	190	g

## ELECTRICAL CHARACTERISTICS

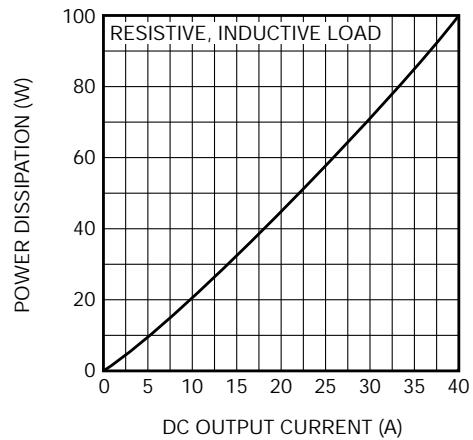
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
I <sub>RRM</sub>	Repetitive reverse current	T <sub>j</sub> =125°C, V <sub>RRM</sub> applied	—	—	2.0	mA
V <sub>FM</sub>	Forward voltage	T <sub>j</sub> =25°C, I <sub>FM</sub> =40A, instantaneous meas.	—	—	1.25	V
R <sub>th (j-c)</sub>	Thermal resistance	Junction to case	—	—	0.24	°C/W
R <sub>th (c-f)</sub>	Contact thermal resistance	Case to fin, conductive grease applied	—	—	0.06	°C/W
—	Insulation resistance	Measured with a 500V megohmmeter between main terminal and case	10	—	—	MΩ

## PERFORMANCE CURVES

MAXIMUM FORWARD CHARACTERISTIC

ALLOWABLE SURGE (NON-REPETITIVE)  
FORWARD CURRENTMAXIMUM TRANSIENT THERMAL IMPEDANCE  
(JUNCTION TO CASE)

MAXIMUM POWER DISSIPATION

ALLOWABLE CASE TEMPERATURE  
VS. DC OUTPUT CURRENT