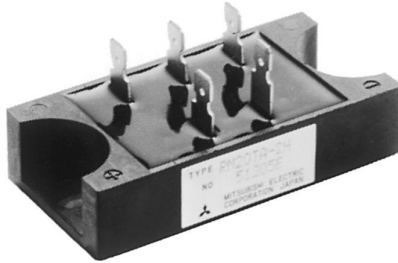


MITSUBISHI DIODE MODULES

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)

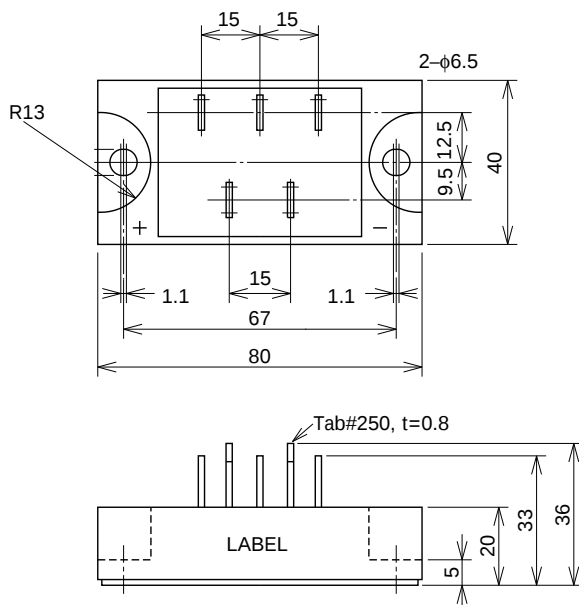
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APPLICATION

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



RM20TA-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	440	480	V

Symbol	Parameter	Conditions	Ratings	Unit
Io	DC output current	Three-phase full wave rectifying circuit, Tc=100°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
Tj	Junction temperature		-40~+125	°C
Tstg	Storage temperature		-40~+125	°C
Viso	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

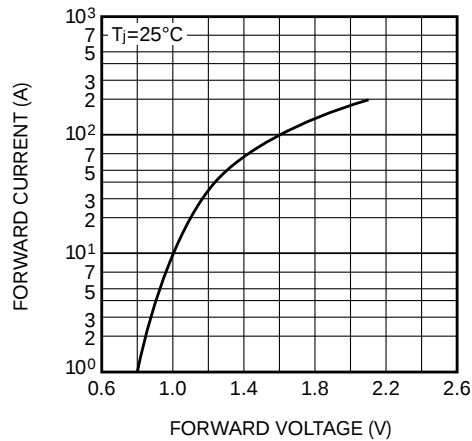
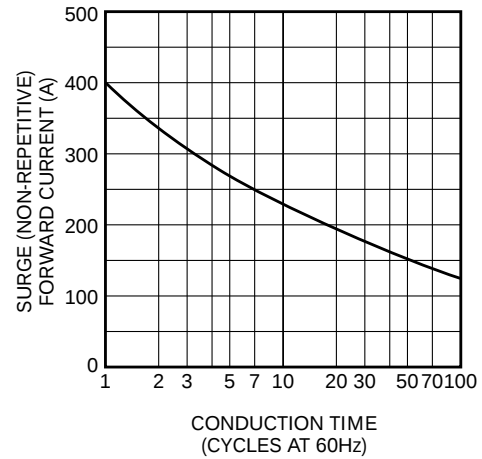
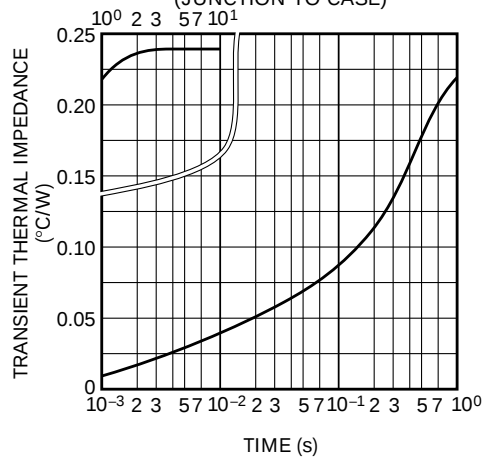
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
IRRM	Repetitive reverse current	Tj=125°C, VRRM applied	—	—	2.0	mA
VFM	Forward voltage	Tj=25°C, IFM=40A, instantaneous meas.	—	—	1.25	V
Rth (j-c)	Thermal resistance	Junction to case	—	—	0.24	°C/W
Rth (c-f)	Contact thermal resistance	Case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

RM20TA-24,-2H

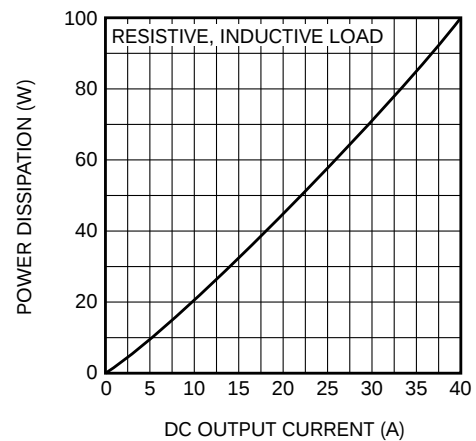
HIGH VOLTAGE MEDIUM POWER GENERAL USE
INSULATED TYPE

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