

查询RM50TC-24供应商

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MITSUBISHI DIODE MODULES

RM50TC-M,-H,-24,-2H

MEDIUM POWER GENERAL USE INSULATED TYPE

RM50TC-M,-H,-24,-2H



- **Io** DC output current **100A**
 - **V_{RRM}** Repetitive peak reverse voltage **400/800/1200/1600V**
 - **3 phase bridge**
 - **Insulated Type**
 - **UL Recognized**

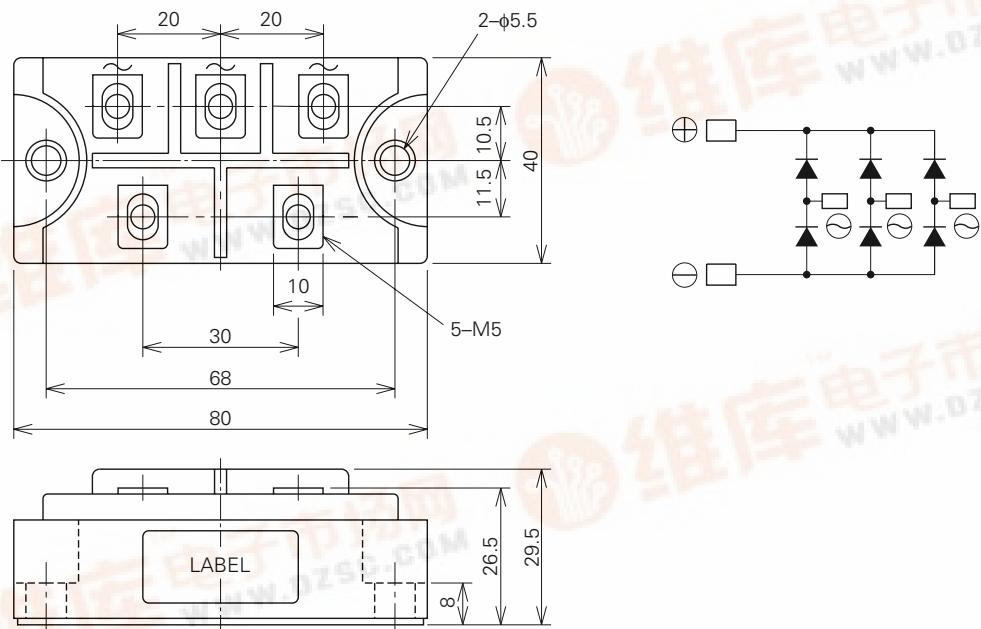
Yellow Card No. E80276 (N)
File No. E80271

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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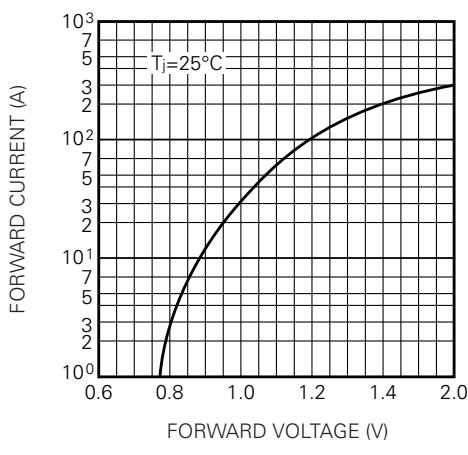
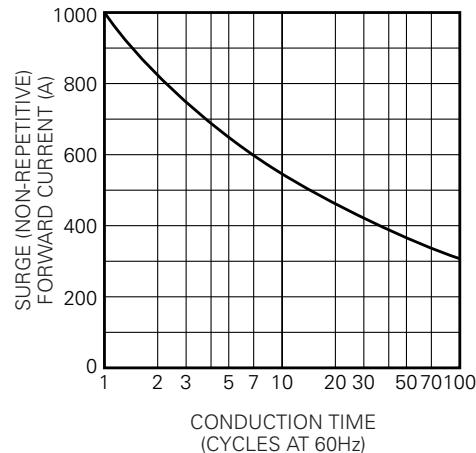
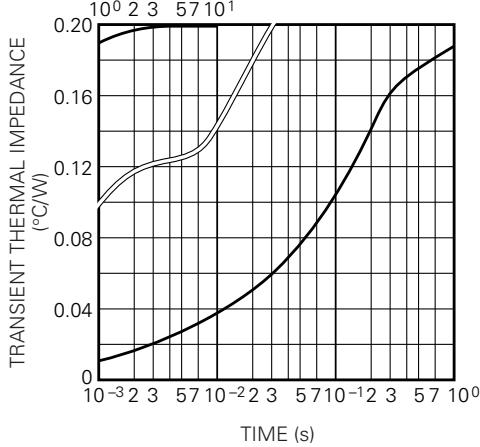
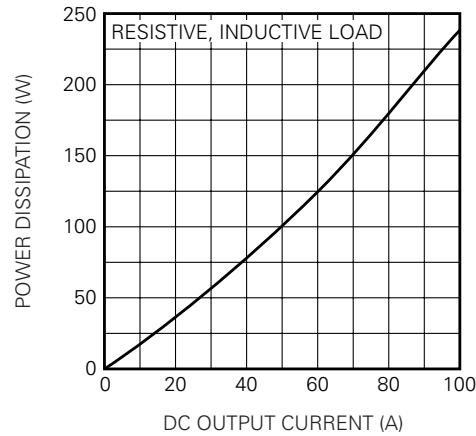
ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Voltage class				Unit
		M	H	24	2H	
V _{RRM}	Repetitive peak reverse voltage	400	800	1200	1600	V
V _{RSM}	Non-repetitive peak reverse voltage	480	960	1350	1700	V
E _a	Recommended AC input voltage	110	220	370	440	V

Symbol	Parameter	Conditions	Ratings	Unit
I _o	DC output current	Three-phase full wave rectifying circuit, T _c =102°C	100	A
I _{FSM}	Surge (non-repetitive) forward current	One half cycle at 60Hz, peak value	1000	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
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 M5	1.47~1.96	N·m
			15~20	kg·cm
		Mounting screw M5	1.47~1.96	N·m
			15~20	kg·cm
—	Weight	Typical value	220	g

ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
I _{RRM}	Repetitive reverse current	T _j =150°C, V _{RRM} applied	—	—	10	mA
V _F	Forward voltage	T _j =25°C, I _{FM} =100A, instantaneous meas.	—	—	1.2	V
R _{th (j-c)}	Thermal resistance	Junction to case	—	—	0.2	°C/W
R _{th (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

PERFORMANCE CURVE**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**