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MITSUBISHI DIODE MODULES

RM30TC-40

HIGH VOLTAGE MEDIUM POWER GENERAL USE
INSULATED TYPE

RM30TC-40



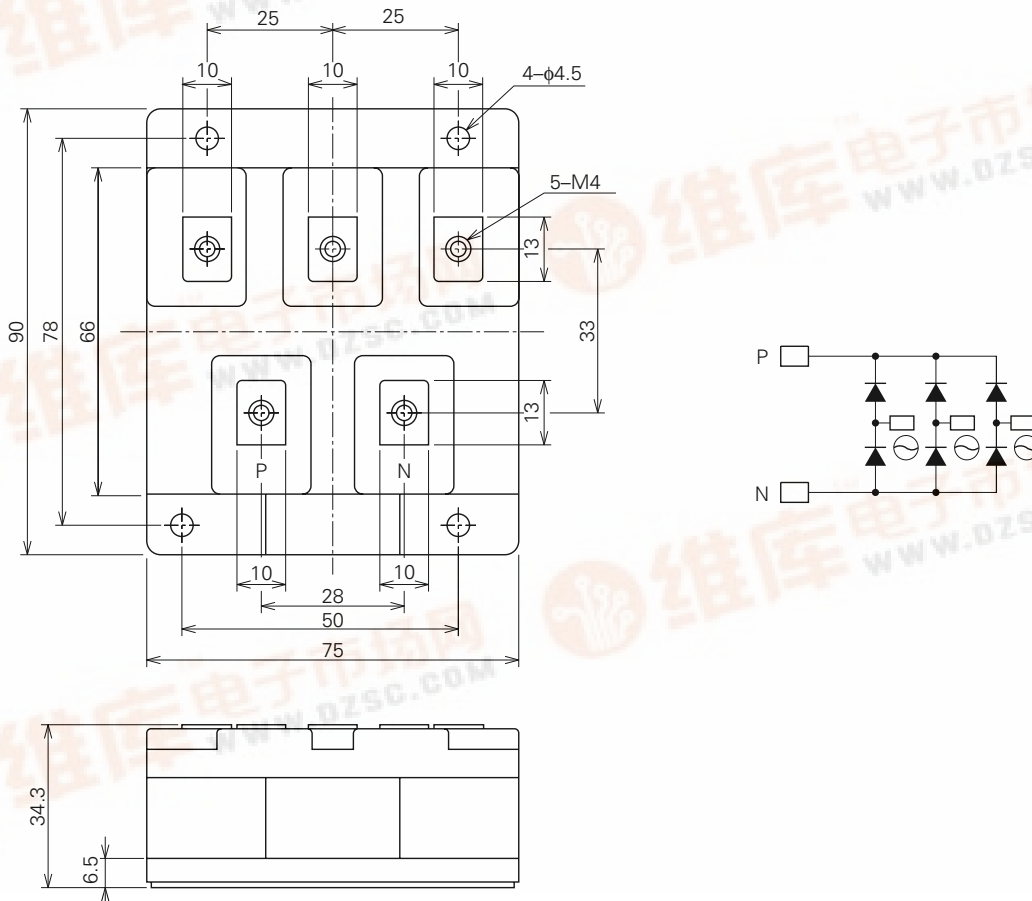
- **I_o** DC output current **60A**
- **V_{RRM}** Repetitive peak reverse voltage **2000V**
- **3 phase bridge**
- **Insulated Type**
- **UL Recognized**
Yellow Card No. E80276 (N)
File No. E80271

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



RM30TC-40**HIGH VOLTAGE MEDIUM POWER GENERAL USE
INSULATED TYPE****ABSOLUTE MAXIMUM RATINGS**

Symbol	Parameter	Voltage class	Unit
		40	
VRRM	Repetitive peak reverse voltage	2000	V
VRSM	Non-repetitive peak reverse voltage	2100	V
Ea	Recommended AC input voltage	1600	V

Symbol	Parameter	Conditions	Ratings	Unit
Io	DC output current	Three-phase full wave rectifying circuit, Tc=82°C	60	A
IFSM	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
Tj	Junction temperature		-40~+125	°C
Tstg	Storage temperature		-40~+125	°C
Viso	Isolation voltage	Charged part to case	3000	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	405	g

ELECTRICAL CHARACTERISTICS

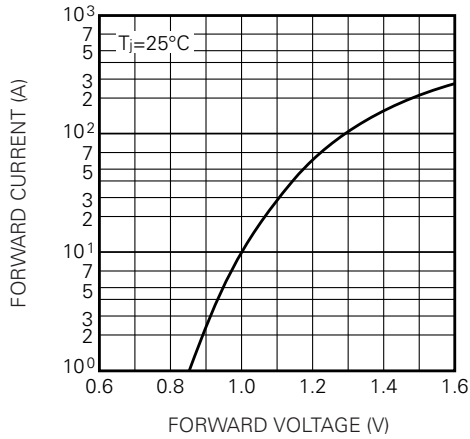
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
IRRM	Repetitive reverse current	Tj=125°C, VRRM applied	—	—	10	mA
VFM	Forward voltage	Tj=25°C, IFM=60A, instantaneous meas.	—	—	1.2	V
Rth (j-c)	Thermal resistance	Junction to case	—	—	0.3	°C/W
Rth (c-f)	Contact thermal resistance	Case to fin, conductive grease applied	—	—	0.04	°C/W
—	Insulation resistance	Measured with a 500V megohmmeter between main terminal and case	10	—	—	MΩ

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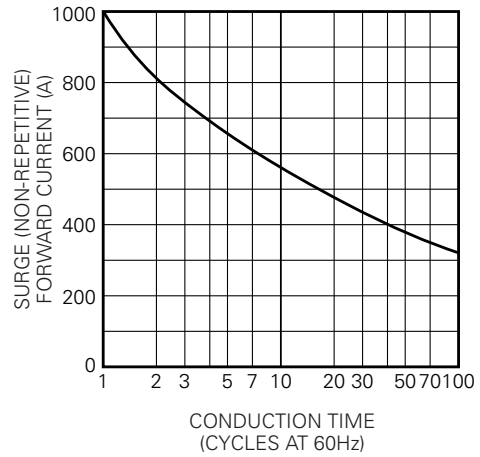
HIGH VOLTAGE MEDIUM POWER GENERAL USE
INSULATED TYPE

PERFORMANCE CURVES

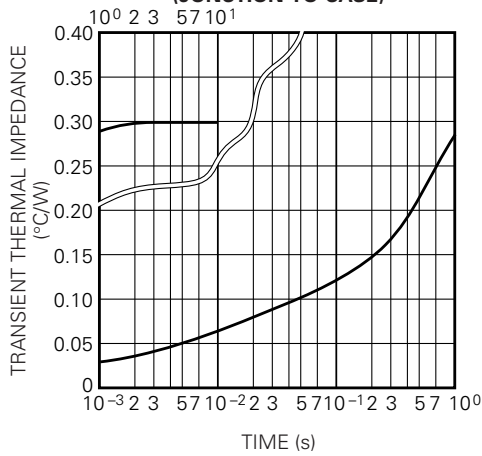
MAXIMUM FORWARD CHARACTERISTIC



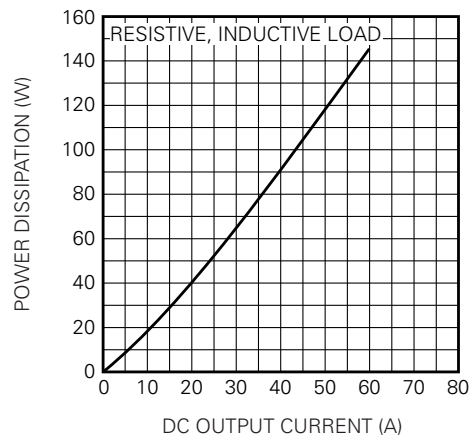
ALLOWABLE SURGE (NON-REPETITIVE) FORWARD CURRENT



MAXIMUM TRANSIENT THERMAL IMPEDANCE (JUNCTION TO CASE)



MAXIMUM POWER DISSIPATION



ALLOWABLE CASE TEMPERATURE VS. DC OUTPUT CURRENT

