

**MEDIUM POWER GENERAL USE
INSULATED TYPE**

- 3 phase bridge
- Insulated Type
- UL Recognized

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

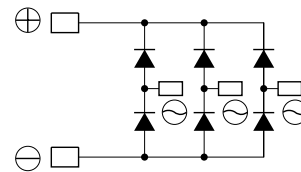
Technical drawing of the front and side views of the 'Label' component.

Front View Dimensions:

- Overall Width: 70
- Overall Height: 40
- Top Section Widths: 14.5, 28
- Top Section Height: 10
- Central Label Area Width: 57
- Central Label Area Height: 20
- Bottom Section Widths: 13.5, 15, 16
- Bottom Section Height: 8
- Mounting Holes: 5-M4 (5 holes), 2-φ4.5 (2 holes)

Side View Dimensions:

- Label Thickness: 6
- Mounting Flange Height: 22
- Total Height: 24



RM30TB-M,-H

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ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Voltage class		Unit
		M	H	
VRRM	Repetitive peak reverse voltage	400	800	V
VRSM	Non-repetitive peak reverse voltage	480	960	V
Ea	Recommended AC input voltage	110	220	V

Symbol	Parameter	Conditions	Ratings	Unit
Io	DC output current	Three-phase full wave rectifying circuit, Tc=105°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~+150	°C
Tstg	Storage temperature		−40~+125	°C
Viso	Isolation voltage	Charged part to case	2000	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

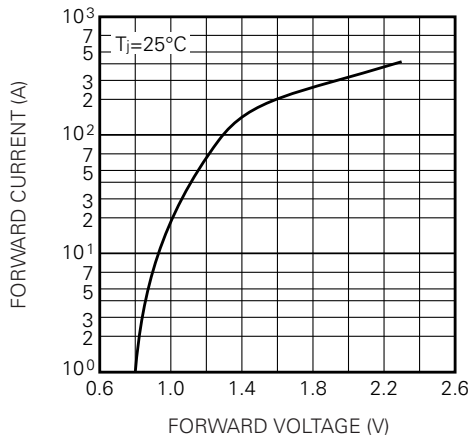
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
IRRM	Repetitive reverse current	Tj=150°C, VRRM applied	—	—	10	mA
VFM	Forward voltage	Tj=25°C, IFM=100A, instantaneous meas.	—	—	1.3	V
Rth (j-c)	Thermal resistance	Junction to case	—	—	0.31	°C/W
Rth (c-f)	Contact thermal resistance	Case to fin, conductive grease applied	—	—	0.09	°C/W
—	Insulation resistance	Measured with a 500V megohmmeter between main terminal and case	10	—	—	MΩ

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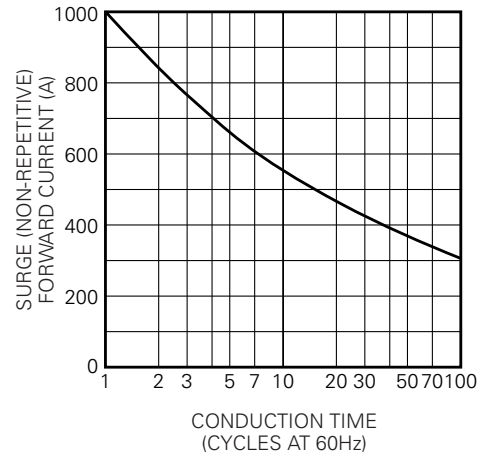
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PERFORMANCE CURVES

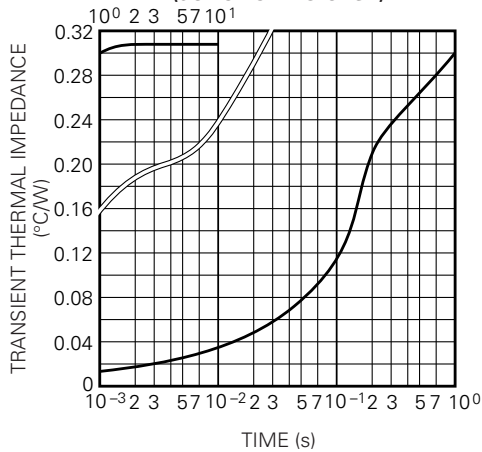
MAXIMUM FORWARD CHARACTERISTIC



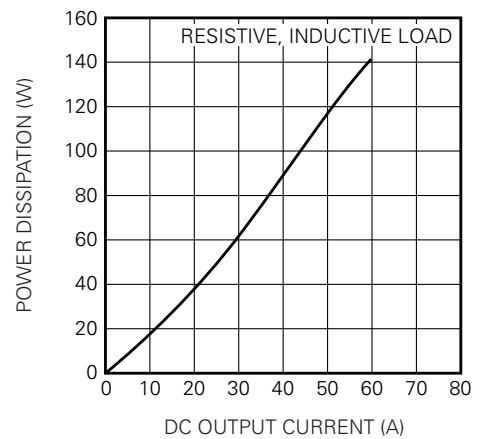
ALLOWABLE SURGE (NON-REPETITIVE)
FORWARD CURRENT



MAXIMUM TRANSIENT THERMAL IMPEDANCE
(JUNCTION TO CASE)



MAXIMUM POWER DISSIPATION



ALLOWABLE CASE TEMPERATURE
VS. DC OUTPUT CURRENT

