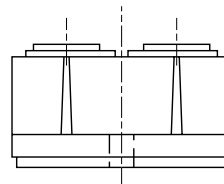
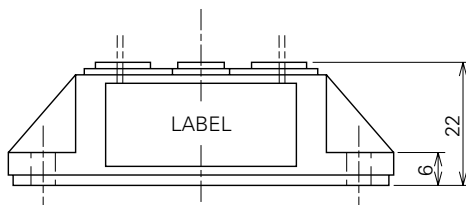
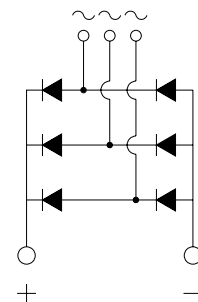


PRELIMINARY

Notice: This is not a final specification.
Some parametric limits are subject to change.

**MEDIUM POWER GENERAL USE
INSULATED TYPE**

-
- Technical drawing of a rectangular plate with the following dimensions and features:
- Overall width: 70
 - Overall height: 40
 - Top edge dimensions (from left): 13.5, 15, 15, 8
 - Bottom edge dimensions (from left): 14.5, 28, 10
 - Right edge dimensions (from top): 18, 20
 - Internal width: 57
 - Internal height: 20
 - Top edge features: 2- $\phi 4.5$ (two holes)
 - Bottom edge features: 5-M4 (five holes)
 - Internal features: A central rectangular cutout with a dashed line indicating its center, and a small circular hole with a center mark.



RM20TPM-M,-H**MEDIUM POWER GENERAL USE
INSULATED TYPE****ABSOLUTE MAXIMUM RATINGS**

Symbol	Parameter	Voltage class		Unit
		M	H	
VRRM	Repetitive peak reverse voltage	400	800	V
VRSM	Non-repetitive peak reverse voltage	500	900	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=125°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	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	2500	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

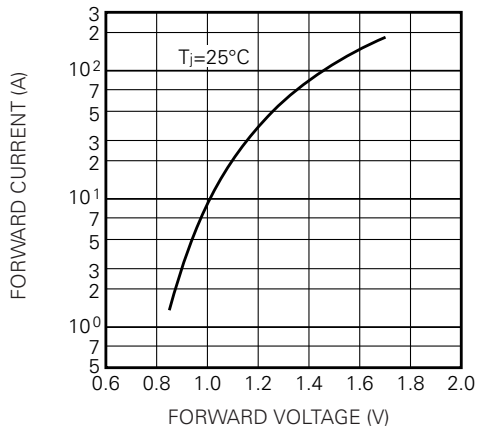
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
IRRM	Repetitive reverse current	Tj=150°C, VRRM applied	—	—	10	mA
VFM	Forward voltage	Tj=25°C, IFM=40A, instantaneous meas.	—	—	1.2	V
Rth (j-c)	Thermal resistance	Junction to case	—	—	0.33	°C/W
Rth (c-f)	Contact thermal resistance	Case to fin, conductive grease applied	—	—	0.09	°C/W
—	Insulation resistance	Measured with a 500V megohmmeter between main terminal and case	10	—	—	MΩ

RM20TPM-M,-H

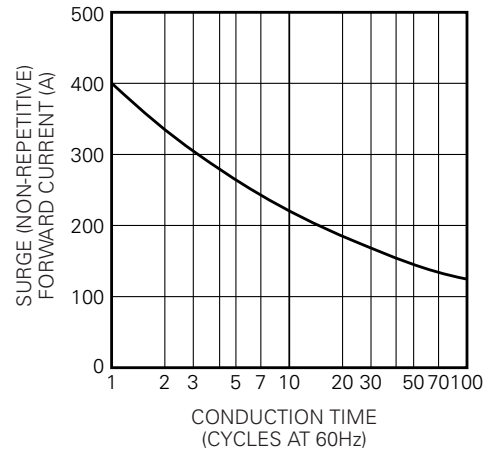
MEDIUM POWER GENERAL USE
INSULATED TYPE

PERFORMANCE CURVES

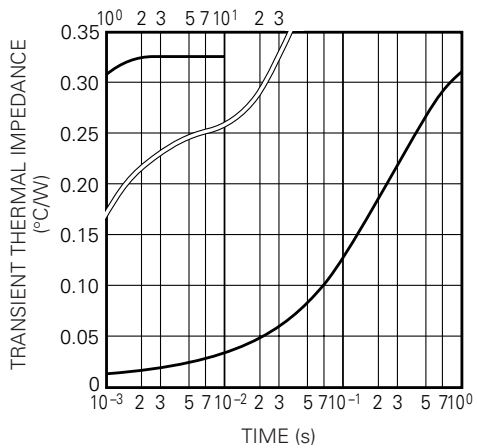
MAXIMUM FORWARD CHARACTERISTIC



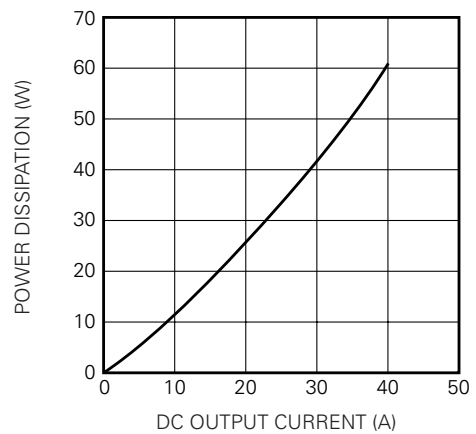
ALLOWABLE SURGE (NON-REPETITIVE)
FORWARD CURRENT



MAXIMUM TRANSIENT THERMAL IMPEDANCE
(JUNCTION TO CASE)



MAXIMUM POWER DISSIPATION



ALLOWABLE CASE TEMPERATURE
VS. DC OUTPUT CURRENT

