

RM200DA-20F,-24F

HIGH SPEED SWITCHING USE
INSULATED TYPE

RM200DA-20F,-24F



- **Idc** DC current **200A**
- **VRRM** Repetitive peak reverse voltage **1000/1200V**
- **trr** Reverse recovery time **0.8μs**
- **Insulated Type**
- **UL Recognized**

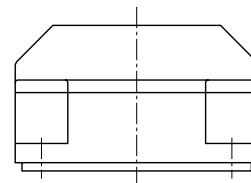
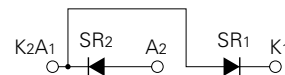
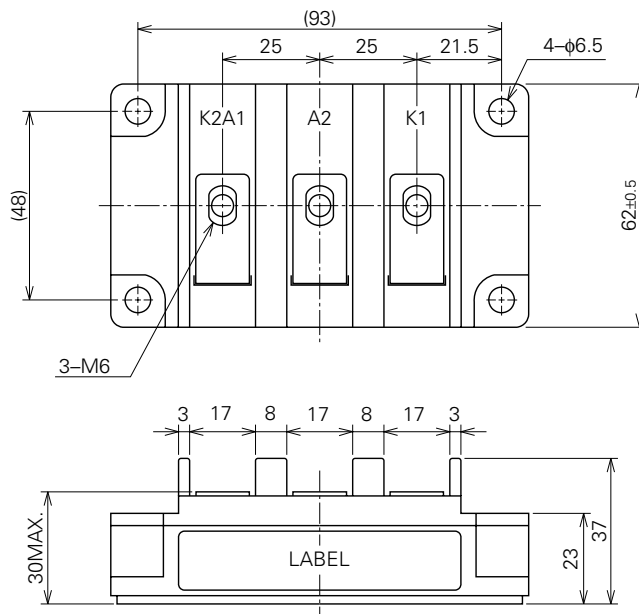
Yellow Card No. E80276 (N)
File No. E80271

APPLICATION

Free wheel use, Welders

OUTLINE DRAWING & CIRCUIT DIAGRAM

Dimensions in mm



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ABSOLUTE MAXIMUM RATINGS (T_j=25°C)

Symbol	Parameter	Voltage class		Unit
		20	24	
V _{RRM}	Repetitive peak reverse voltage	1000	1200	V
V _{DRM}	Non-repetitive peak reverse voltage	1100	1350	V
V _R (DC)	Reverse DC voltage	800	960	V

Symbol	Parameter	Conditions	Ratings	Unit
I _{DC}	DC current	Resistive load, T _C =75°C	200	A
I _{FSM}	Surge (non-repetitive) forward current	One half cycle at 60Hz, peak value	4000	A
I ² _t	I ² _t for fusing	Value for one cycle surge current	1.65 × 10 ⁴	A ² s
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 M6	1.96~2.94	N·m
			20~30	kg·cm
		Mounting screw M6	1.96~2.94	N·m
			20~30	kg·cm
—	Weight	Typical value	460	g

ELECTRICAL CHARACTERISTICS

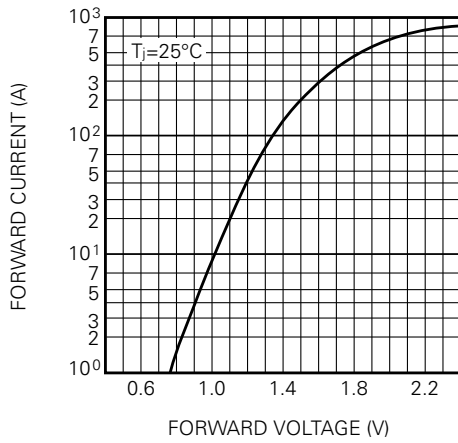
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
I _{RRM}	Repetitive reverse current	T _j =150°C, V _{RRM} applied	—	—	40	mA
V _{FM}	Forward voltage	T _j =25°C, I _{FM} =200A, Instantaneous meas.	—	—	1.5	V
t _{rr}	Reverse recovery time	I _{FM} =200A, T _j =150°C, di/dt=-400A/μs, V _R =600V	—	—	0.8	μs
Q _{rr}	Reverse recovery charge		—	—	130	μC
R _{th} (j-c)	Thermal resistance	Junction to case	—	—	0.25	°C/W
R _{th} (c-f)	Contact thermal resistance	Case to fin, conductive grease applied	—	—	0.04	°C/W

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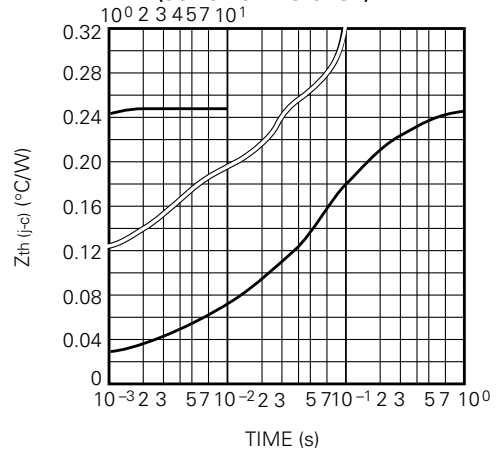
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PERFORMANCE CURVES

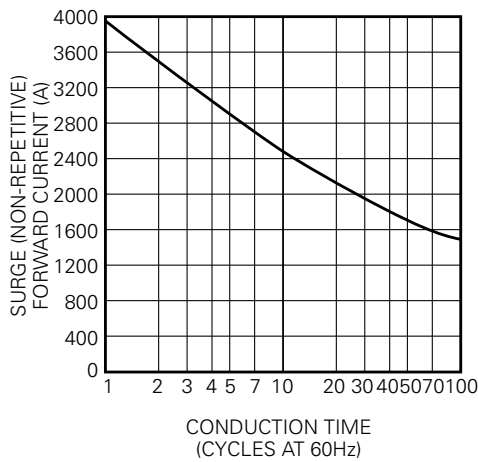
MAXIMUM FORWARD CHARACTERISTIC



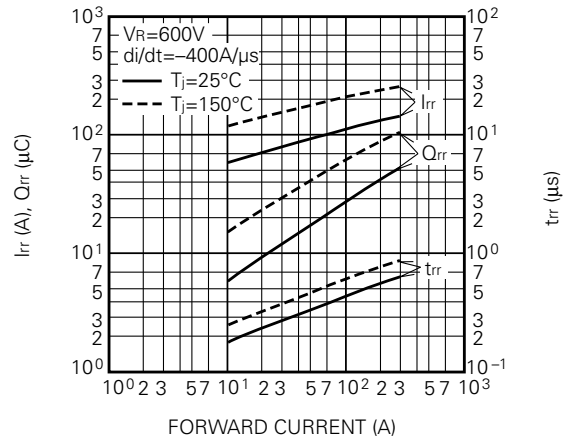
MAXIMUM TRANSIENT THERMAL IMPEDANCE
(JUNCTION TO CASE)



RATED SURGE (NON-REPETITIVE)
FORWARD CURRENT



REVERSE RECOVERY CHARACTERISTICS
VS. FORWARD CURRENT (TYPICAL)



REVERSE RECOVERY CHARACTERISTICS
VS. -di/dt (TYPICAL)

