DIODE MODULE (F.R.D.)

MDF(R)250A-L/M







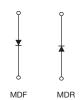
MDF(R)250A-L/M are high speed diode with flat mounting base which is designed for switching application of high power.

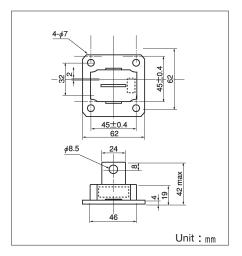
- IF(AV) 250A VRRM=400V
- Easy Construction with Anode (F) Type and Cathode (R) Type
- Reverse Recovery Time (trr) L Type: 450ns, M Type: 550ns
- High Reliability by Glass passivated Chips

(Applications)

Switching Power Supply.

Inverter Welding Power Supply





■Maximum Ratings

Symbol	ltam	Ratings			
	Item	MDF(R)250A20L/M	MDF(R)250A30L/M	MDF(R)250A40L/M	Unit
VRRM	Repetitive Peak Reverse Voltage	200	300	400	V
VRSM	Non-Repetitive Peak Reverse Voltage	240	360	480	V
VR (DC)	D.C. Reverse Voltage	160	240	320	V

Symbol	Item		Conditions	Ratings	Unit
lf(AV)	Average Forward Current		Single phase, half wave, 180 °conduction, Tc:L/M 83 °/85°C	250	Α
IF(RSM)	R.M.S. Forward Current		Single phase, half wave, 180 °conduction, Tc:L/M 83 °/85°C	390	Α
IFSM	Surge Forward Current		1/2 cycle, 50/60Hz, peak value, non-repetitive	4000/4500	Α
l²t	I²t		Value for one cycle of surge cureent	84000	A ² S
Tj	Operating Junction Temperature			-30 ∼+150	°C
Tstg	Storage Temperature			− 30∼ + 125	°C
	Mounting Torque	Mounting (M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	N •m
		Terminal (M8)	Recommended Value 8.8~10 (90~105)	11 (115)	(kgf·cm)
	Mass		Typical Value	170	g

■Electrical Characteristics

Symbol	Item	Conditions		Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max	at VDRM, single phase, half wave, Tj=150°C		60	mA
VFM	Forward Voltage Drop,max	Foward current 800A, T _j =25 ℃		1.4	V
		Inst, measurement	М	1.3	\ \ \ \
Rth(j-c)	Thermal Impedance,max	Junction to case		0.2	°C/W
trr	Reverse Recovery Time, max	Tj=25°C, IF=2A, di/dt=20A/ μ s	L	450	ns
			М	550	

MDF(R)250A-L/M







