DIODE MODULE (F.R.D.)

MDF(R)150A-L/M



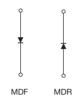


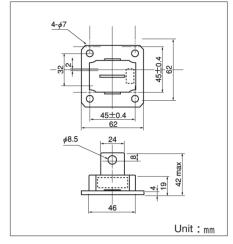


MDF(R)150A-L/M are high speed diode with flat miunting base which is designed for switching application of high power.

- IF(AV)=150A VRRM=400V
- Easy Construction with Anode (F) Type and Cathode (R) Type
- Reverse Recovery Time (trr) L Type: 450ns, M Type: 550ns
- Highly Reliability by Grass passivated Chips

(Applications)
Switching Power Supply.
Inverter Welding Power Supply





Maximum Ratings

(Tj=25°C)

Symbol	Item	Ratings			
	item	MDF(R)150A20L/M	MDF(R)150A30L/M	MDF(R)150A40L/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
IF (AV)	Average Forward Current		Single phase, half wave, 180° conduction, Tc: 94°C	150	Α
IF (RMS)	R.M.S. Forward Current		Single phase, half wave, 180° conduction, Tc: 94°C	235	Α
IFSM	Surge Forward Current		1/2 cycle, 50/60Hz, peak value, non-repetitive	2700/3000	А
l²t	l²t		Value for one cycle of surge current	37500	A ² S
Tj	Operating Junction Temperature			-30 ∼+150	°C
Tstg	Storage Temperature			− 30∼ + 125	°C
	Mounting	Mounting (M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	N ·m
	Torque	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 VRRM, single phase, half wave, Tj=150℃		50	mA			
VFM	Forward Voltage Drop,max	Foward current 470A, T _j =25°C Inst. measurement		1.30	V			
Rth (j-c)	Thermal Impedance, max	Junction to case		0.30	°C/W			
trr	Reverse Recovery Time, max	$T_j=25$ °C, IF=2A, $di/dt=20A/\mu$ s	L	450	ns			
			М	550				

MDF(R)150A-L/M







