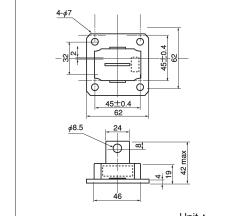
DIODE MODULE (F.R.D.) MDF(R)150A-L/M



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



Unit:mm

Maximum Ratings (Tj=28							
Symbol	Item	Ratings					
		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		

MDF

MDR

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	Α
l²t	l²t		Value for one cycle of surge current	37500	A ² S
Tj	Operating Junction Temperature			-30~+150	°C
Tstg	Storage Tem	perature		-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)	$(kgf \cdot cm)$
	Mass		Typical Value	170	g

Electrical Characteristics

Symbol	Item	Conditions		Ratings	Unit
IRRM	Repetitive Peak Reverse Current,max	at V℞℞ℳ, single phase, half wave, Tj =150 ℃		50	mA
Vfm	Forward Voltage Drop,max	Foward current 470A, Tj=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		L	450	
		Tj=25°C, IF=2A, di/dt=20A/ μ s		550	ns

SanRex



