

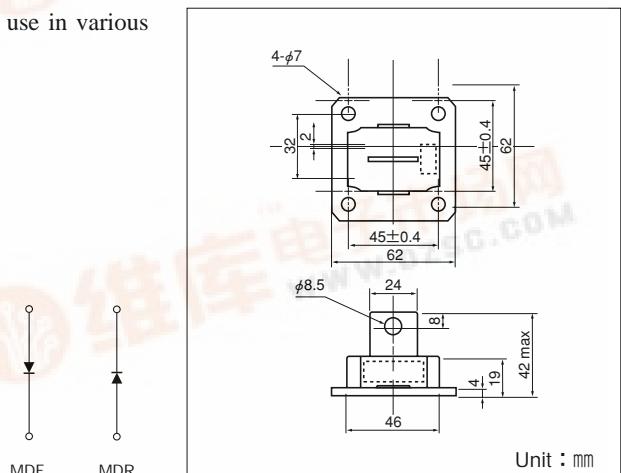
DIODE(NON-ISOLATED TYPE)**MDF(R)250A**

MDF(R)250A is a diode with flat mounting base which is designed for use in various rectifier applications.

- $I_F(AV)=250A$, $V_{RRM}=500V$
- Easy Construction with Anode (F) Type and Cathode (R) type.
- High reliability by glass passivation

(Applications)

Various Rectifiers
Welding Power Supply

**■Maximum Ratings**(T_j=25°C unless otherwise specified)

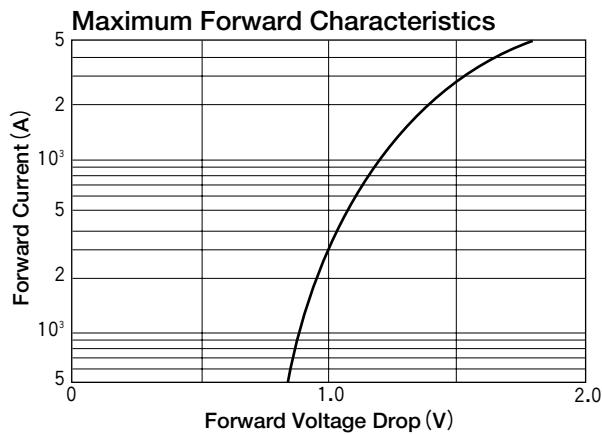
Symbol	Item	Ratings			Unit
		MDF(R)200A30	MDF(R)200A40	MDF(R)200A50	
V _{RRM}	Repetitive Peak Reverse Voltage	300	400	500	V
V _{RSM}	Non-Repetitive Peak Reverse Voltage	360	480	600	V
V _{R(DC)}	D.C. Reverse Voltage	240	320	400	V

Symbol	Item	Conditions		Ratings	Unit
I _{F(AV)}	Average Forward Current	Single phase, half wave, 180° conduction, T _c : 92°C		250	A
I _{F(RMS)}	R.M.S. Forward Current	Single phase, half wave, 180° conduction, T _c : 92°C		390	A
I _{FSM}	Surge Forward Current	½cycle, 50Hz/60Hz, peak value, non-repetitive		4000/4500	A
I ² t	I ² t	Value for one cycle of surge current		84000	A ² S
T _j	Junction Temperature			-30 to +150	°C
T _{stg}	Storage Temperature			-30 to +125	°C
	Mounting Torque	Mounting (M6) Terminal (M8)	Recommended Value 2.5-3.9 (25-40) Recommended Value 8.8-10 (90-105)	4.7 (48) 11 (115)	N·m (kgf·cm)
	Mass			170	g

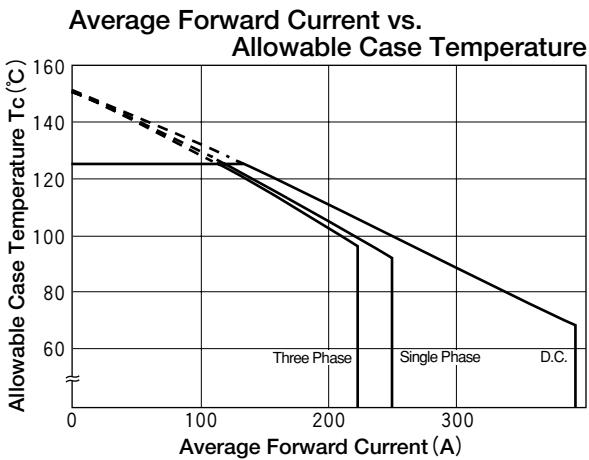
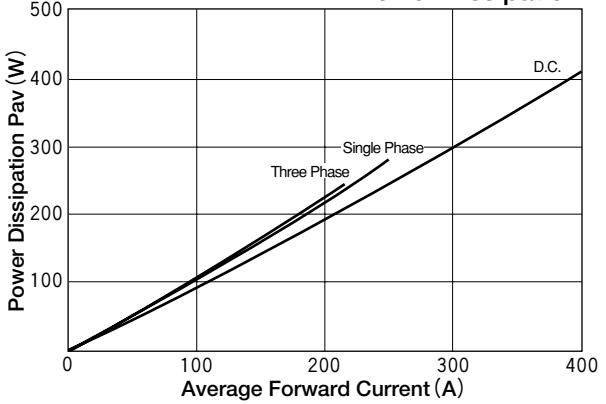
■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I _{RRM}	Repetitive Peak Reverse Current, max.	at V _{DRM} , single phase, half wave, T _j =150°C	15	mA
V _{FM}	Forward Voltage Drop, max.	Forward current 800A, T _j =25°C, Inst. measurement	1.15	V
R _{th(j-c)}	Thermal Impedance, max.	Junction to case	0.2	°C/W

MDF(R)250A



Average Forward Current vs.
Power Dissipation



Cycle Surge Forward Current Rating
(Non-Repetitive)

