

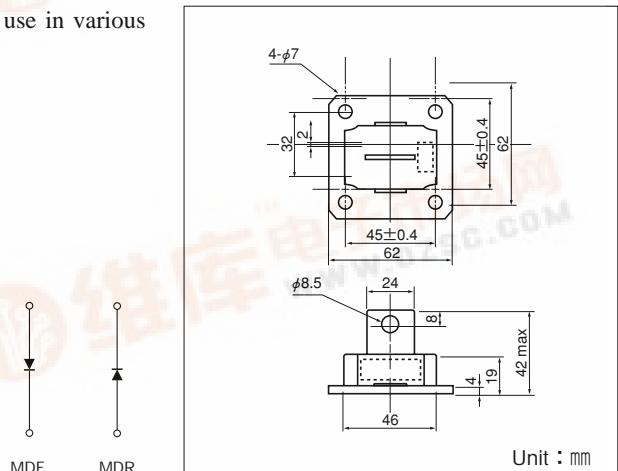
DIODE(NON-ISOLATED TYPE)**MDF(R)150A**

MDF(R)150A is a diode with flat mounting base which is designed for use in various rectifier applications.

- $I_{F(AV)} = 150A$, $V_{RRM} = 500V$
- Easy Construction with Anode (F) Type and Cathode (R) type.
- High reliability by glass passivation

(Applications)

Various Rectifiers
Welding Power Supply

**■Maximum Ratings**

($T_j = 25^\circ C$ unless otherwise specified)

Symbol	Item	Ratings			Unit
		MDF(R)150A30	MDF(R)150A40	MDF(R)150A50	
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, $T_c : 98^\circ C$		150	A
$I_{F(RMS)}$	R.M.S. Forward Current	Single phase, half wave, 180° conduction, $T_c : 98^\circ C$		235	A
I_{FSM}	Surge Forward Current	$\frac{1}{2}$ cycle, 50Hz/60Hz, peak value, non-repetitive		2700/3000	A
I^2t	I^2t	Value for one cycle of surge current		37500	A^2S
T_j	Junction Temperature			-30 to +150	$^\circ C$
T_{stg}	Storage Temperature			-30 to +125	$^\circ C$
	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, $T_j = 150^\circ C$	10	mA
V_{FM}	Forward Voltage Drop, max.	Forward current 470A, $T_j = 25^\circ C$, Inst. measurement	1.15	V
$R_{th(j-c)}$	Thermal Impedance, max.	Junction to case	0.3	$^\circ C/W$

MDF(R)150A

