

DIODE(NON-ISOLATED TYPE)

MDF(R)200A

TOP

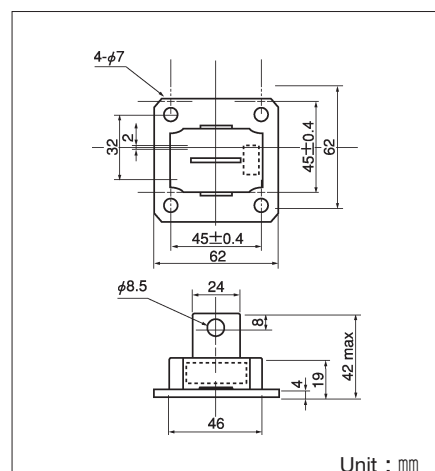
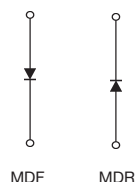


MDF(R)200A is a diode with flat mounting base which is designed for use in various rectifier applications.

- $I_F(AV) = 200A$, $V_{RRM} = 500V$
- Easy Construction with Anode (F) Type and Cathode (R) type.
- High reliability by glass passivation

(Applications)

Various Rectifiers
Welding Power Supply



Unit : mm

Maximum Ratings

($T_j = 25^\circ C$)

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, $T_c : 92^\circ C$	200	A
$I_F(RMS)$	R.M.S. Forward Current		Single phase, half wave, 180° conduction, $T_c : 92^\circ C$	314	A
I_{FSM}	Surge Forward Current		$1\frac{1}{2}$ cycle, 50Hz/60Hz, peak value, non-repetitive	3600/4000	A
I^2t	I^2t		Value for one cycle of surge current	66600	A ² S
T_j	Junction Temperature			$-30 \sim +150$	$^\circ C$
T_{stg}	Storage Temperature			$-30 \sim +125$	$^\circ C$
	Mounting Torque	Mounting (M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	N·m (kgf·cm)
		Terminal (M8)	Recommended Value 8.8~10 (90~105)	11 (115)	
	Mass			170	g

Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I_{RRM}	Repetitive Peak Reverse Current, max.	at V_{DRM} , single phase, half wave, $T_j = 150^\circ C$	13	mA
V_{FM}	Forward Voltage Drop, max.	Forward current 630A, $T_j = 25^\circ C$, Inst. measurement	1.15	V
$R_{th}(j-c)$	Thermal Impedance, max.	Junction to case	0.25	$^\circ C/W$

