

DIODE(THREE PHASES BRIDGE TYPE)

DF200AA120/160

TOP



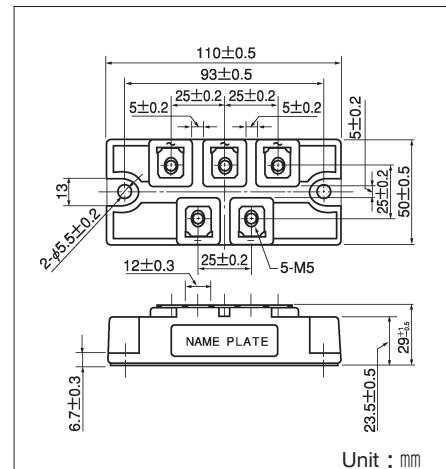
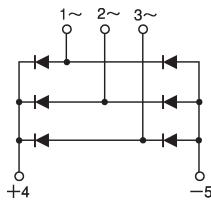
UL:E76102 (M)

Power Diode Module DF200AA is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 200Amp ($T_c = 96^\circ\text{C}$) Repetitive peak reverse voltage is up to 1,600V.

- $T_{j\text{Max}} = 150^\circ\text{C}$
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching
-for three phase rectification



($T_j = 25^\circ\text{C}$)

Symbol	Item	Ratings		Unit
		DF200AA120	DF200AA160	
V_{RRM}	Repetitive Peak Reverse Voltage	1200	1600	V
V_{RSM}	Non-Repetitive Peak Reverse Voltage	1300	1700	V

Symbol	Item	Conditions	Ratings	Unit
I_D	Output Current (D.C.)	Three Phase full wave. $T_c = 96^\circ\text{C}$	200	A
I_{FSM}	Surge Forward Current	1 cycle, 50/60Hz, peak value, non-repetitive	1850/2000	A
I^2t	I^2t	Value for one cycle of surge current	6000	A ² S
T_j	Operating Junction Temperature		-40~+150	°C
T_{stg}	Storage Temperature		-40~+125	°C
V_{iso}	Isolation Breakdown Voltage (R.M.S.)	A.C. 1 minute	2500	V
	Mounting Torque	Mounting (M5)	Recommended Value 1.5~2.5 (15~25)	2.7 (28) N·m (kgf·cm)
		Terminal (M5)	Recommended Value 1.5~2.5 (15~25)	2.7 (28) N·m (kgf·cm)
	Mass	Typical Value	360	g

Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I_{RRM}	Repetitive Peak Reverse Current, max.	$T_j = 150^\circ\text{C}$ at V_{RRM}	15.0	mA
V_{FM}	Forward Voltage Drop, max.	$T_j = 25^\circ\text{C}$, $I_{FM} = 200\text{A}$, Inst. measurement	1.35	V
$R_{th(j-c)}$	Thermal Impedance, max.	Junction to case	0.10	°C/W

