

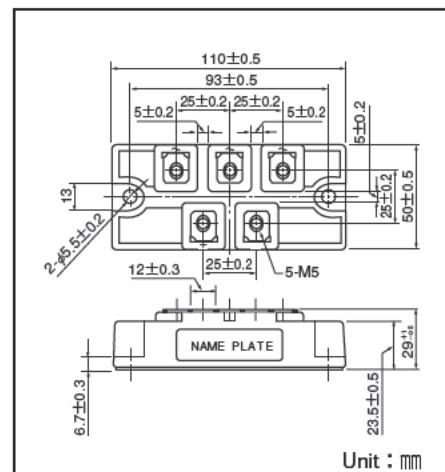
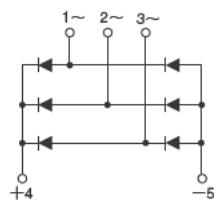
DIODE(THREE PHASES BRIDGE TYPE)

DF200AA120/160

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



■ Maximum Ratings

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

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 ² t	I ² t	Value for one cycle of surge current	6000	A ² s
T _j	Operating Junction Temperature		-40 to +150	°C
T _{stg}	Storage Temperature		-40 to +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)	
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} =200A, Inst. measurement	1.35	V
R _{th(j-c)}	Thermal Impedance, max.	Junction to case	0.10	°C/W

