

DIODE(THREE PHASES BRIDGE TYPE)**DF150AA120/160**

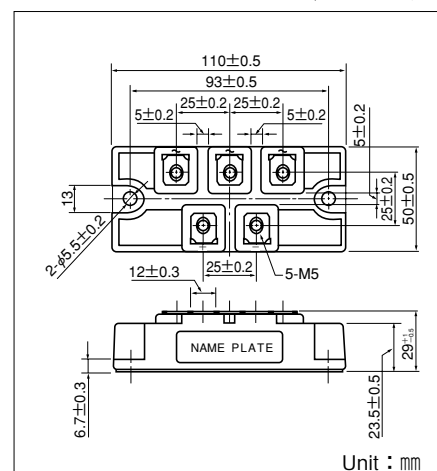
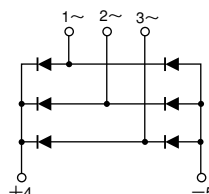
UL;E76102(M)

Power Diode Module **DF150AA** 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 150Amp ($T_c=94^\circ\text{C}$) 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°C unless otherwise specified)

Symbol	Item	Ratings		Unit
		DF150AA120	DF150AA160	
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 =94°C	150	A	
I _{FSM}	Surge Forward Current	1 cycle, 50/60Hz, peak value, non-repetitive	1100/1200	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	
Viso	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°C at V _{RRM}	15.0	mA
V _{FM}	Forward Voltage Drop, max.	T _j =25°C, I _{FM} =150A, Inst. measurement	1.35	V
R _{th(j-c)}	Thermal Impedance, max.	Junction to case	0.14	°C/W

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