

DIODE(THREE PHASES BRIDGE TYPE)**DF75AA120/160**

TOP



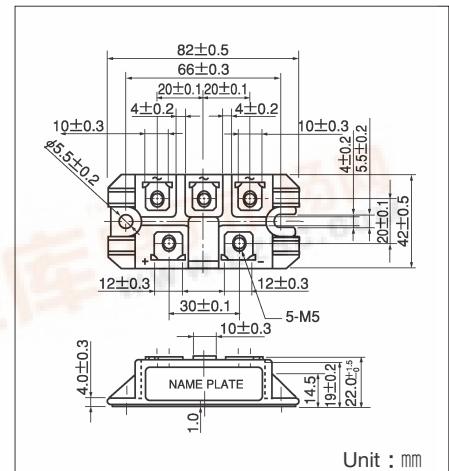
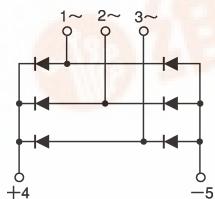
UL;E76102 (M)

Power Diode Module DF75AA 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 75Amp ($T_c = 100^\circ\text{C}$) Repetitive peak reverse voltage is up to 1600V.

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

(Applications)

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



Unit : mm

Maximum Ratings(T_j=25°C)

Symbol	Item	Ratings		Unit
		DF75AA120	DF75AA160	
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 =100°C	75	A
I _{FSM}	Surge Forward Current	1cycle, 50/60Hz, peak value, non-repetitive	910/1000	A
I ² t	I ² t	Value for one of surge current	4100	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)	
Mass	Typical Value		160	g

Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I _{RRM}	Repetitive Peak Reverse Current, max.	T _j =150°C at V _{RRM}	10.0	mA
V _{FM}	Forward Voltage Drop, max.	T _j =25°C, I _{FM} =75A, Inst. measurement	1.40	V
R _{th} (j-c)	Thermal Impedance, max.	Junction to case	0.24	°C/W

