DIODE(THREE PHASES BRIDGE TYPE)

DF150AA120/160







UL;E76102 (M)

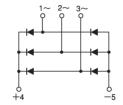
Power Diode Module **DF150AA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 150Amp ($Tc = 94^{\circ}C$) Repetitive peak reverse voltage is up to 1,600V.

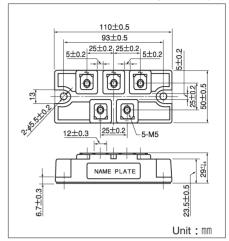
- TiMax=150 °C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





■Maximum Ratings

(Tj=25°C)

Symbol	ltam	Ratings		Unit
	Item	DF150AA120	DF150AA160	Utill
VRRM	Repetitive Peak Reverse Voltage	1200	1600	V
VRSM	Non-Repetitive Peak Reverse Voltage	1300	1700	V

Symbol	Item		Conditions	Ratings	Unit
lo	Output Current (D.C.)		Three Phase full wave. Tc=94°C	150	Α
IFSM	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	1100/1200	Α
l²t	I2t		Value for one cycle of surge current	6000	A ² S
Tj	Operating Junction Temperature			− 40∼ + 150	℃
Tstg	Storage Temperature			− 40∼ + 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
IRRM	Repetitive Peak Reverse Current, max.	Tj=150°C at VRRM	15.0	mA
VFM	Forward Voltage Drop, max.	Tj=25°C, IFM=150A, Inst. measurement	1.35	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.14	°C/W

DF150AA120/160







