DIODE(THREE PHASES BRIDGE TYPE)

DF100AA120/160

UL;E76102(M)

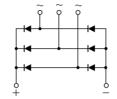
Power Diode Module **DF100AA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 100 Amp ($Tc=102^{\circ}\text{C}$) Repetitive peak reverse voltage is up to 1,600V.

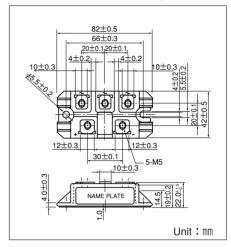
- TjMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





■Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	Item	Ratings		
		DF100AA120	DF100AA160	Unit
VRRM	Repetitive Peak Reverse Voltage	1200	1600	V
Vrsm	Non-Repetitive Peak Reverse Voltage	1300	1700	V

Symbol	lt	tem	Conditions	Ratings	Unit
lD	Output Current (D.C.)		Three phase full wave. Tc=102°C	100	Α
IFSM	Surge Forward Current		½cycle, 50/60Hz, Peak value, non-repetitive	910/1000	Α
l²t	I ² t (for fusing)		Value for one cycle of surge current	4100	A ² S
Tj	Operating Junction Temperature			−40 to +150	Ĵ
Tstg	Storage Temperature			−40 to +125	Ĵ
Viso	Isolation Voltage		Terminal to case, AC RMS 1minute	2500	٧
	Mounting	Mounting (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	N∙m
	Torque	Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	(kgf·cm)
	Mass		Typical Value	160	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
		Conditions		Тур.	Max.	Offic
IRRM	Repetitive Peak Reverse Current	Tj=150°C at VRRM			15	mΑ
VFM	Forward Voltage Drop	Tj=25°C, IF=100A, Inst. measurement			1.2	V
Rth(j-c)	Thermal Resistance	Junction to case			0.2	°C/W

DF100AA120/160

