## **DIODE**(THREE PHASES BRIDGE TYPE)

## **DF100AA120/160**







UL;E76102 (M)

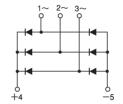
Power Diode Module **DF100AA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 100 Amp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

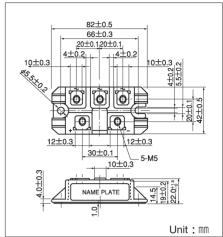
- TjMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





**■**Maximum Ratings

(Tj=25°C)

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

Symbol	Item Conditions		Ratings	Unit	
lD	Output Current (D.C.)		Three phase full wave. Tc: 102 ℃	100	Α
IFSM	Surge Forward Current		1cycle, 50/60Hz, peak value, non-repetitive	910/1000	Α
l²t	I²t		Value for one cycle of surge current	4100	A <sup>2</sup> S
Tj	Operating Junction Temperature			<b>−</b> 40∼ <b>+</b> 150	c
Tstg	Storage Temperature			<b>−</b> 40∼ <b>+</b> 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
		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.	Offit
IRRM	Repetitive Peak Reverse Current	Tj=150℃ at VRRM			15	mA
VFM	Forward Voltage Drop	Tj=25°C, IFM=100A, Inst. measurement			1.2	V
Rth (j-c)	Thermal Impedance	Junction to case			0.2	°C/W

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