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

# **DF50AA120/160**

UL;E76102(M)

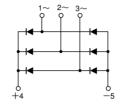
Power Diode Module **DF50AA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction Output DC current is 50 Amp ( $Tc=114^{\circ}\text{C}$ ) Repetitive peak reverse voltage is up to 1,600V.

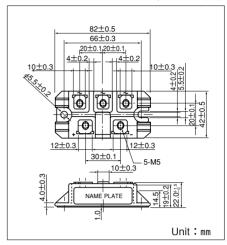
- TiMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

#### (Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





#### **■**Maximum Ratings

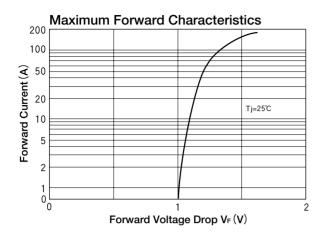
 $(Tj=25^{\circ}C \text{ unless otherwise specified})$ 

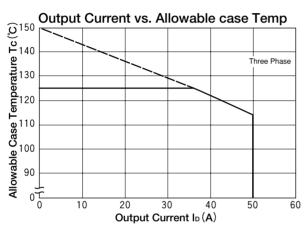
Symbol	ltom	Ratings		
	Item	DF50AA120	DF50AA160	Unit
VRRM	Repetitive Peak Reverse Voltage	1200	1600	V
VRSM	Non-Repetitive Peak Reverse Voltage	1300	1700	V

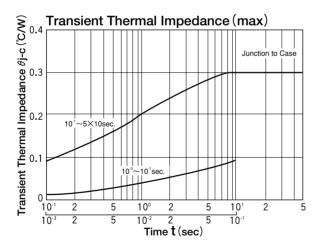
Symbol	It	tem	Conditions	Ratings		
ΙD	Output Curre	nt (D.C.)	Three phase full wave. Tc: 114℃	50	Α	
IFSM	Surge Forwar	d Current	1cycle, 50/60Hz, peak value, non-repetitive	640/700	Α	
l²t	l²t		Value for one cycle of surge current	2000	A <sup>2</sup> S	
Tj	Operating June	ction Temperature		−40 to +150	°C	
Tstg	Storage Temperature			−40 to +125	°C	
Viso	Isolation Breakdown Voltage (R.M.S.)		A.C. 1 minute	2500	V	
	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	

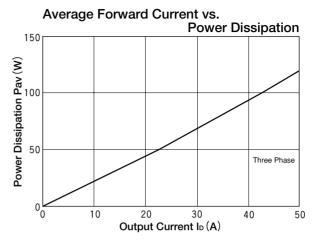
#### **■**Electrical Characteristics

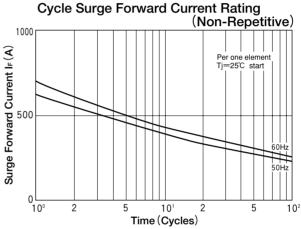
Cumbal	ltam	Conditions	Ratings			Unit	
Symbol	Item	Conditions	Min.	Тур.	Тур. Мах.		
Irrm	Repetitive Peak Reverse Current	Tj=150°C at VRRM			8.0	mA	
VFM	Forward Voltage Drop	Tj=25°С, Iғм=50A, Inst. measurement			1.2	V	
Rth (j-c)	Thermal Impedance	Junction to case			0.3	°C/W	











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25.163.2453.	0 25.163.4253.0	25.190.2053.0	25.194.3453.0	25.320.4853.1	25.320.5253.1	25.326.3253.1	25.326.3553.1	25.330.1653.1
25.330.4753.	1 25.330.5253.1	25.334.3253.1	25.334.3353.1	25.350.2053.0	25.352.4753.1	25.522.3253.0	<u>T483C</u> <u>T484C</u>	<u>T485F</u> <u>T485H</u>
<u>T512F-YEB</u>	<u>T513F</u> <u>T514F</u>	T554 T612FSE	25.161.3453.0	25.179.2253.0	25.194.3253.0	25.325.1253.1	25.326.4253.1	25.330.0953.1
25.332.4353.	1 25.350.1653.0	25.350.2453.0	25.352.1453.0	25.352.1653.0	25.352.2453.0	25.352.5453.1	25.522.3353.0	25.602.4053.0
25.640.5053.	0							