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

## **DF75AA120/160**







UL;E76102 (M)

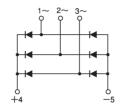
Power Diode Module **DF75AA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolted from semiconductor elements for simple heatsink construction. Output DC current is 75Amp ( $Tc = 100\,^{\circ}\text{C}$ ) Repetitive peak reverse voltage is up to 1600V.

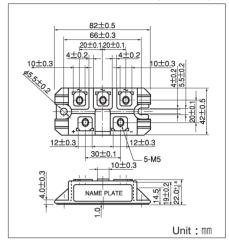
- TjMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





■Maximum Ratings

(Tj=25°C)

Symbol	Itam	Ratings		Unit
	Item	DF75AA120	DF75AA160	Offic
VRRM	Repetitive Peak Reverse Voltage	1200	1600	V
VRSM	Non-Repetitive Peak Reverse Voltage	1300	1700	V

Symbol	Į:	tem	Conditions	Ratings	Unit
ΙD	Output Current (D.C.)		Three Phase full wave. Tc=100°C	75	Α
IFSM	Surge Forward Current		1cycle, 50/60Hz, peak value, non-repetitive	910/1000	Α
l²t	I²t		Value for one of surge curent	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	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

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Symbol	Item	Conditions	Ratings	Unit					
IRRM	Repetitive Peak Reverse Current, max.	Tj=150℃ at VRRM	10.0	mA					
VFM	Forward Voltage Drop, max.	Tj=25°C, IFM=75A, Inst. measurement	1.40	V					
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.24	°C/W					

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