DIODE(THREE PHASES BRIDGE TYPE) DF75AA120/160



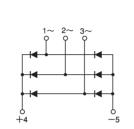
UL;E76102 (M)

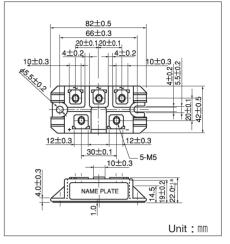
Power Diode Module DF75AA is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolted from semiconductor elements for simple heatsink construction. Output DC current is 75Amp ($Tc =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

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

(Applications)

- AC, DC Motor Drive/AVR/Switching
- -for three phase rectification





Maximum Batings

Maximum Ratings					
Symbol	Itom	Ratings		Unit	
	Item	DF75AA120	DF75AA160	Unit	
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 =100 ℃	75	A
IFSM	Surge Forward Current		1cycle, 50/60Hz, peak value, non-repetitive	910/1000	A
l²t	l²t		Value for one of surge curent	4100	A ² S
Tj	Operating Junction Temperature			-40~+150	°C
Tstg	Storage Temperature			-40~+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)	$(kgf \cdot cm)$
	Mass		Typical Value	160	g

Electrical Characteristics

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

SanRex



