## **DIODE**(THREE PHASES BRIDGE TYPE) **DF75BA40/80**

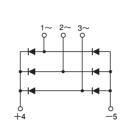


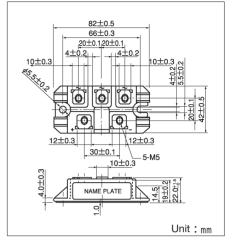
Power Diode Module DF75BA is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 75Amp (Tc = 107 °C) Repetitive peak reverse voltage is up to 800V.

- 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

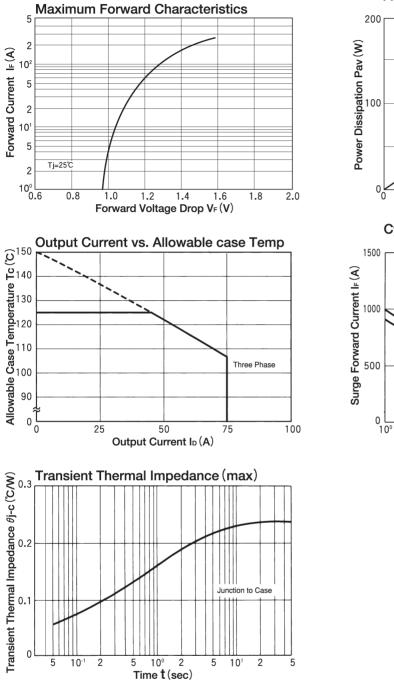
Maximum Ratings					
Symbol	ltom	Ratings		Unit	
	Item	DF75BA40	DF75BA80	Unit	
VRRM	Repetitive Peak Reverse Voltage	400	800	V	
VRSM	Non-Repetitive Peak Reverse Voltage	480	960	V	

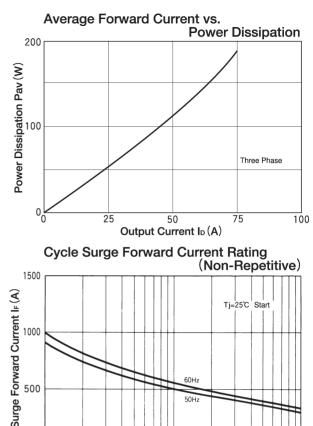
Symbol	Item Conditions		Ratings	Unit	
lo	Output Current (D.C.)		Three Phase full wave. Tc =107 ℃	75	Α
IFSM	Surge Forward Current		1cycle, 50/60Hz, peak value, non-repetitive	910/1000	Α
l²t	l²t		Value for one cycle of surge current	4100	A <sup>2</sup> S
Tj	Operating Junction Temperature			-40~+150	°C
Tstg	Storage Temperature			-40~+125	Ĵ
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	Teminal (M5)	Recommended Value 1.5~2.5 (15~25)	2.7 (28)	$(kgf \cdot cm)$
	Mass		Typical Value	160	g

Electric	Τ)	(Tj=25℃)		
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	1.20	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.24	°C/W

## SanRex







10<sup>1</sup> Time (Cycles)

2

5

10<sup>2</sup>

5

2