

DF75BA80

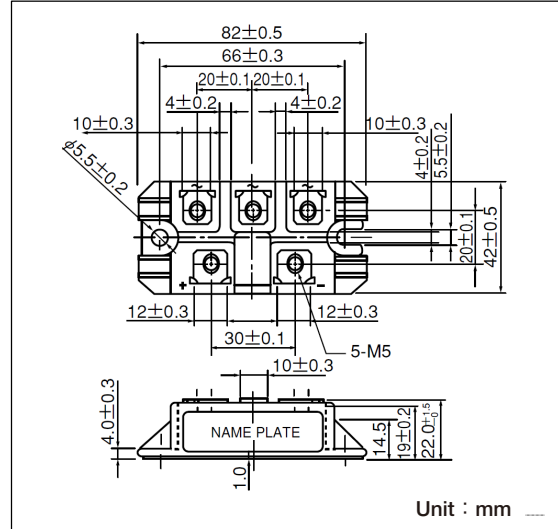
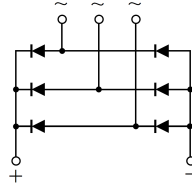
《Features》

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.

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

《Applications》

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



Unit : mm

■ Maximum Ratings (Tj=25°C unless otherwise specified)

Item	Symbol	Unit	DF75BA80
Repetitive Peak Reverse Voltage	V _{RRM}	V	800
Non-Repetitive Peak Reverse Voltage	V _{RSM}	V	960

Item	Symbol	Unit	Ratings	Conditions
Output Current (D.C.)	I _D	A	75	Three phase full wave, T _C =107°C
Surge forward current	I _{FSM}	A	910/1000	1/2cycle, 50/60Hz, peak value, non-repetitive
I ² t	I ² t	A ² s	4100	Value for one cycle of surge current
Operating Junction Temperature	T _j	°C	-40 to +150	
Storage Temperature	T _{stg}	°C	-40 to +125	
Isolation Breakdown Voltage (R.M.S.)	V _{ISO}	V	2500	A.C., 1minute
Mounting Torque	Mounting (M5)	N·m (kgf·cm)	2.7(28)	Recommended Value 1.5 to 2.5 (15 to 25)
	Terminals (M5)		2.7(28)	Recommended Value 1.5 to 2.5 (15 to 25)
Mass		g	160	Typical value

■ Electrical Characteristics (Tj=25°C unless otherwise specified)

Item	Symbol	Unit	Ratings			Conditions
			Min.	Typ.	Max.	
Repetitive Peak Reverse Current	I _{RRM}	mA			10	T _j =150°C, V _R =V _{RRM}
Forward Voltage Drop	V _{FM}	V			1.2	I _F =75A, Inst. measurement
Thermal Resistance	R _{th(j-c)}	°C/W			0.24	Junction to Case

