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

# **DF75BA40/80**







UL;E76102(M)

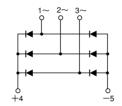
Power Diode Module **DF75BA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 75 Amp (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

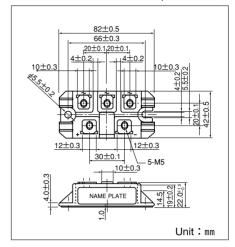
- ●TiMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

### (Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





## ■Maximum Ratings

(Tj=25℃ unless otherwise specified)

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

Symbol	It	tem	Conditions	Ratings	Unit
ΙD	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	l <sup>2</sup> t		Value for one cycle of surge current	4100	A <sup>2</sup> S
Tj	Operating Junction Temperature			−40 to +150	Ç
Tstg	Storage Temperature			−40 to +125	°C
Viso	Isolation Breakdown Voltage (R.M.S.)		A.C. 1 minute	2500	٧
	Mounting Torque	Mounting (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	N∙m
		Teminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	(kgf·cm)
	Mass		Typical Value	160	g

### **■**Electrical Characteristics

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

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°С, Iғм=75А, Inst. measurement	1.20	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.24	°C/W

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