DIODE(THREE PHASES BRIDGE TYPE)

DF200BA40/80







UL;E76102(M)

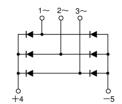
Power Diode Module **DF200BA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 200 Amp ($Tc=102\,^{\circ}\text{C}$) Repetitive peak reverse voltage is up to 800 V.

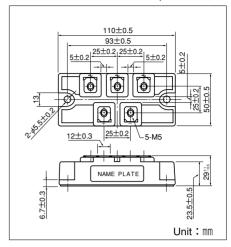
- TiMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





■Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	Itam	Ratings		Linit
	Item	DF200BA40	DF200BA80	Unit
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=102°C	200	Α
IFSM	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	1850/2000	Α
l²t	2 †		Value for one cycle of surge current	17000	A ² S
Tj	Operating Junction Temperature			−40 to +150	Ç
Tstg	Storage Temperature			−40 to +125	Ĵ
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
		Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	(kgf·cm)
	Mass		Typical Value	360	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	Tj=150℃ at V _{RRM}	20.0	mA
VFM	Forward Voltage Drop, max.	Tj=25°C, IFM=200A, Inst measurement	1.20	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.10	°C/W

DF200BA40/80







