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

## **DF200BA40/80**







UL;E76102 (M)

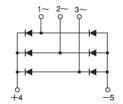
Power Diode Module **DF200BA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 200Amp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

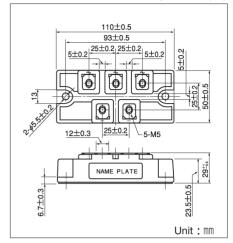
- TjMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





■Maximum Ratings

(Tj=25°C)

Symbol	ltam	Ratings		Unit
	Item	DF200BA40	DF200BA80	Offic
VRRM	Repetitive Peak Reverse Voltage	400	800	V
VRSM	Non-Repetitive Peak Reverse Voltage	480	960	V

Symbol	Item 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 <sup>†</sup>		Value for one cycle of surge current	17000	A <sup>2</sup> S
Tj	Operating Junction Temperature			<b>−</b> 40∼ <b>+</b> 150	℃
Tstg	Storage Temperature			<b>−</b> 40∼ <b>+</b> 125	℃
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	360	g

## **■**Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	Tj=150℃ at VRRM	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

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