DIODE(THREE PHASES BRIDGE TYPE)

DF100BA40/80







UL;E76102 (M)

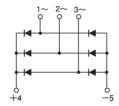
Power Diode Module **DF100BA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 100 Amp (Tc = $102\,^{\circ}\text{C}$) Repetitive peak reverse voltage is up to 800 V.

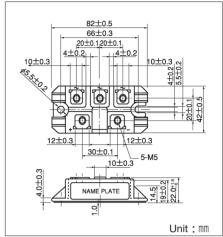
- TjMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





■Maximum Ratings

(Tj=25°C)

Symbol	ltom	Ratings		
	Item	DF100BA40	DF100BA80	Unit
VRRM	Repetitive Peak Reverse Voltage	400	800	V
VRSM	Non-Repetitive Peak Reverse Voltage	480	960	V

Symbol	li li	tem	Conditions	Ratings	Unit
ΙD	Output Current (D.C.)		Three phase full wave. Tc: 102 ℃	100	Α
IFSM	Surge Forward Current		1cycle, 50/60Hz, peak value, non-repetitive	910/1000	Α
l²t	I²t		Value for one cycle of surge current	4100	A ² S
Tj	Operating Junction Temperature			− 40∼ + 150	c
Tstg	Storage Temperature			− 40∼ + 125	°C
Viso	Isolation Breakdown Voltage (R.M.S.)		A.C. 1 minute	2500	V
	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	160	g

■Electrical Characteristics

	Item	Conditions	Ratings			Unit
Symbol						
				Тур,	Max.	
IRRM	Repetitive Peak Reverse Current	Tj=150℃ at VRRM			10	mA
VFM	Forward Voltage Drop	Tj=25°C, IFM=100A, Inst. measurement			1.2	V
Rth (j-c)	Thermal Impedance	Junction to case			0.2	°C/W

DF100BA40/80







