DIODE(THREE PHASES BRIDGE TYPE)

DF100BA40/80







UL;E76102(M)

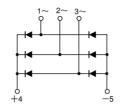
Power Diode Module **DF100BA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 100 Amp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

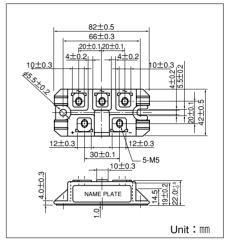
- TiMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





■Maximum Ratings

(Tj=25°C unless otherwise specified)

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

Symbol	Item Conditions		Ratings	Unit	
ΙD	Output Curre	nt (D.C.)	Three phase full wave. To: 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 to +150	c
Tstg	Storage Temperature			-40 to +125	$^{\circ}$
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·cm)
	Mass		Typical Value	160	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
		Conditions		Тур,	Max.	Offit
IRRM	Repetitive Peak Reverse Current	Tj=150°C 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







