DIODE(THREE PHASES BRIDGE TYPE)

DF150BA40/80







UL;E76102(M)

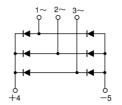
Power Diode Module **DF150BA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction. Output DC current is 150 Amp ($Tc=100^{\circ}\text{C}$) Repetitive peak reverse voltage is up to 800V.

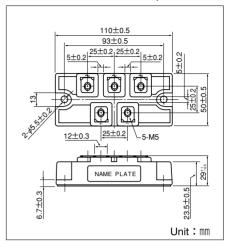
- TiMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





■Maximum Ratings

(Tj=25℃ unless otherwise specified)

Symbol	Itam	Ratings		Unit
	Item	DF150BA40	DF150BA80	Offic
VRRM	Repetitive Peak Reverse Voltage	400	800	V
VRSM	Non-Repetitive Peak Reverse Voltage	480	960	V

Symbol	I1	tem	Conditions		Unit
ΙD	Output Current (D.C.)		Three Phase full wave. Tc=100°C	150	Α
IFSM	Surge Forward Current		1cycle, 50/60Hz, peak value, non-repetitive	1100/1200	Α
l²t	I²t		Value for one cycle of surge current	6000	A ² S
Tj	Operating Junction Temperature			−40 to +150	$^{\circ}$
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	360	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit					
IRRM	Repetitive Peak Reverse Current, max.	Tj=150℃ at VRRM	15.0	mA					
VFM	Forward Voltage Drop, max.	Tj=25°C, IFм=150A, Inst. measurement	1.20	V					
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.14	°C/W					

DF150BA40/80







