DIODE(THREE PHASES BRIDGE TYPE)

DF50BA40/80

UL;E76102(M)

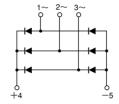
Power Diode Module **DF50BA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction Output DC current is $50 \text{Amp} (\text{Tc=}114^{\circ}\text{C})$ Repetitive peak reverse voltage is up to 800V.

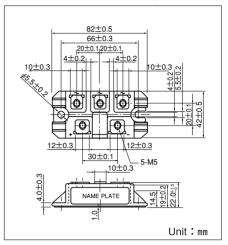
- TjMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching

-for three phase rectification





■Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	Item	Ratings		
		DF50BA40	DF50BA80	Unit
VRRM	Repetitive Peak Reverse Voltage	400	800	V
VRSM	Non-Repetitive Peak Reverse Voltage	480	960	V

Symbol	Item		Conditions	Ratings	Unit
lo	Output Current (D.C.)		Three phase full wave. Tc=114℃	50	Α
IFSM	Surge Forward Current		½cycle, 50/60Hz, Peak value, non-repetitive	640/700	Α
l²t	I ² t (for fusing)		Value for one cycle of surge current	2000	A ² S
Tj	Operating Junction Temperature			−40 to +150	$^{\circ}$
Tstg	Storage Temperature			−40 to +125	℃
Viso	Isolation Voltage		Terminal to case, AC RMS 1minute	2500	V
	Mounting Torque	Monting (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

Symbol	Item	Conditions	Ratings			Unit
		Conditions		Тур.	Max.	Onit
IRRM	Repetitive Peak Reverse Current	Tj=150℃ at VRRM			4.0	mA
VFM	Forward Voltage Drop	Tj=25°C, IF=50A, Inst measurement			1.2	V
Rth(j-c)	Thermal Resistance	Junction to case			0.3	°C/W

