## **DIODE**(THREE PHASES BRIDGE TYPE) **DF40AA120/160**



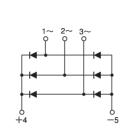
UL;E76102 (M)

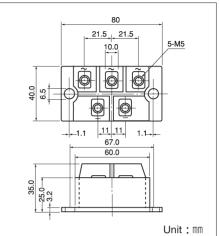
Power Diode Module DF40AA is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction output DC current is 40Amp (Tc=116°C) Repetitive peak reverse voltage is up to 1,600V.

- TiMax=150°C
- Isolated Mounting Base
- High reliability by unique glass passivation

## (Applications)

- AC. DC Motor Drive/AVR/Switching
- -for three phase rectification





## Maximum Batings

Maximum Ratings						
Symbol	Itom	Ratings		Unit		
	Item	DF40AA120	DF40AA160	Unit		
VRRM	Repetitive Peak Reverse Voltage	1200	1600	V		
VRSM	Non-Repetitive Peak Reverse Voltage	1300	1700	V		

Symbol	Item Conditions		Ratings	Unit	
lD	Output current (D.C.)		Three phase. full wave. Tc=116℃	40	A
IFSM	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	640/700	Α
Tj	Junction Temperature			-40~+150	°C
Tstg	Storage Temperature			-40~+125	°C
Viso	Isolation Breakdown Voltage (R.M.S.)		Main Terminal to case 1 minute	2500	V
	Mounting	Mounting (M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	N∙m
	Torque	Terminal (M5)	Recommended Value 1.5~2.5 (15~25)	2.7 (28)	(kgf·cm)
	Mass		Typical Value	200	g

## Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
Irrm	Repetitive Peak Reverse Current, max.	Tj=150°С at VRRм	8.0	mA
Vfm	Forward Voltage Drop, max.	IFM=40A, Tj=25°C Inst. measurement	1.3	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.32	°C/W



Output Current vs.Power Dissipation, max. (Three phase, full wave)

