DIODE(THREE PHASES BRIDGE TYPE)

DF40AA120/160





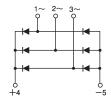


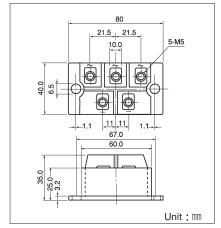
UL;E76102 (M)

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 $^{\circ}$ C) Repetitive peak reverse voltage is up to 1,600V.

- 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	Item	Ratings		Unit	Ì
	item	DF40AA120	DF40AA160	Offic	
VRRM	Repetitive Peak Reverse Voltage	1200	1600	V	1
VRSM	Non-Repetitive Peak Reverse Voltage	1300	1700	V	1

Symbol	Item		Conditions	Ratings	Unit
lo	Output current (D.C.)		Three phase. full wave. Tc=116°C	40	Α
IFSM	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	640/700	Α
Tj	Junction Tem	perature		− 40∼ + 150	°C
Tstg	Storage Temperature			− 40∼ + 125	°C
Viso	Isolation Breakdown Voltage (R.M.S.)		Main Terminal to case 1minute	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°C at VRRM	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\M

DF40AA120/160







