DIODE(THREE PHASES BRIDGE TYPE)

DF40AA120/160

UL;E76102(M)

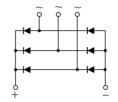
Power Diode Module **DF40AA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction output DC current is 40 Amp (Tc=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

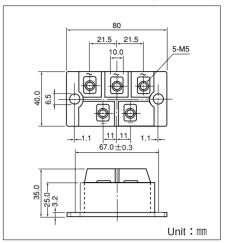
- TiMax=150°C
- Isolated Mounting Base
- High reliability by unique glass passivation

(Applications)

AC. DC Motor Drive/AVR/Switching

—for three phase rectification





■Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	ltom	Ratings		Unit
	Item	DF40AA120	DF40AA160	Offic
Vrrm	Repetitive Peak Reverse Voltage	1200	1600	V
Vrsm	Non-Repetitive Peak Reverse Voltage	1300	1700	V

Symbol	l1	tem	Conditions	Ratings	Unit
lD	Output current (D.C.)		Three phase. full wave. Tc=116℃	40	Α
I FSM	Surge Forward Current		½cycle, 50/60Hz, Peak value, non-repetitive	640/700	Α
Tj	Junction Temperature			−40 to +150	°C
Tstg	Storage Temperature			−40 to +125	°C
Viso	Isolation Voltage		Terminal to case, AC RMS 1minute	2500	٧
	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.	I _F =40A, Tj=25°C Inst. measurement	1.3	V
Rth(j-c)	Thermal Resistance, max.	Junction to case	0.32	°C/W

