DIODE(THREE PHASES BRIDGE TYPE) F60AA120/160 D



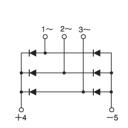
UL;E76102 (M)

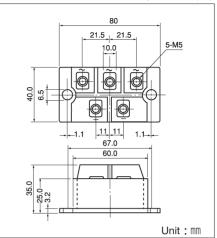
Power Diode Module DF60AA is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction Output DC current is 60Amp (Tc=112°C) 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

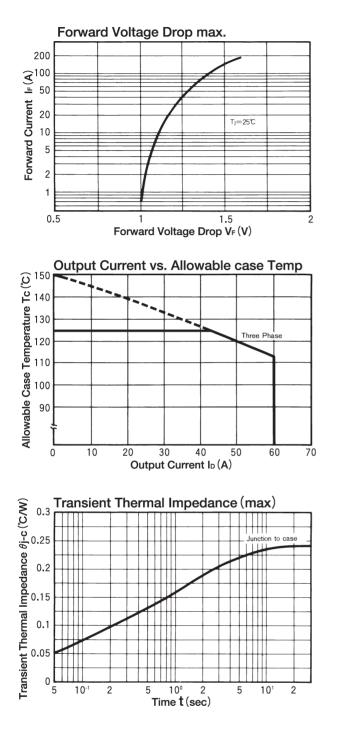
Maximum Ratings						
Symbol	ltom	Ratings		Unit		
	Item	DF60AA120	DF60AA160	Unit		
VRRM	Repetitive Peak Reverse Voltage	1200	1600	V		
VRSM	Non-Repetitive Peak Reverse Voltage	1300	1700	V		

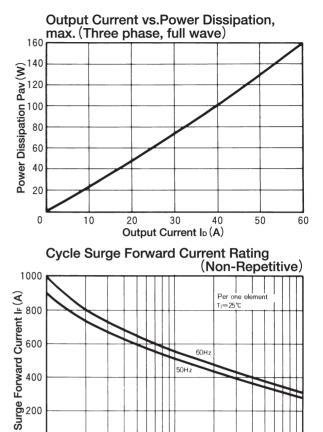
Symbol	Item		Conditions	Ratings	Unit
lo	Output current (D.C.)		Three phase. full wave. Tc=112°C	60	Α
IFSM	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	910/1000	Α
Tj	Junction Temperature			-40~+150	°C
Tstg	Storage Temperature			-40~+125	°C
Viso	Isolation Breakdown Voltage (R.M.S.)		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°С at VRRм	12.0	mA
Vfm	Forward Voltage Drop, max.	IFM=60A, Tj=25°C Inst. measurement	1.3	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.24	°C/W







50Hz

10

Time (Cycles)

2

5

10²

0

í10⁰

2

5