DIODE(THREE PHASES BRIDGE TYPE)

DF30AA120/160

UL;E76102(M)

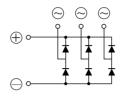
Power Diode Module **DF30AA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction output DC current is 30Amp (Tc= 117° C) Repetitive peak reverse voltage is up to 1,600V.

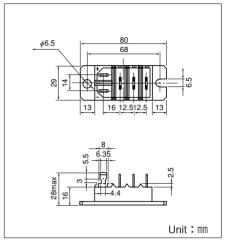
- TjMax=150°C
- Isolated Mounting Base
- High reliability by unique glass passivation
- Easy Assemble by the #250 terminal Tab

(Applications)

AC. DC Motor Drive/AVR/Switching

—for three phase rectification





■Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	Itam	Ratings		Linit
	Item	DF30AA120	DF30AA160	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=117℃	30	Α
IFSM	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	270/300	А
Tj	Junction Temperature			−40 to +150	°C
Tstg	Storage Temperature			−40 to +125	°C
Viso	Isolation Breakdown Voltage (R.M.S.)		Main Terminal to case 1minute	2500	V
	Mounting Torque	Mounting (M6)	Recommended Value 2.5-3.9 (25-40)	4.7 (48)	N·m
		Terminal	Tub Terminal #250	_	(kgf·cm)
	Mass		Typical Value	90	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	Tj=150°C at VRRM	3.0	mA
VFM	Forward Voltage Drop, max.	IFM=30A, Tj=25°C Inst. measurement	1.3	V
Rth(j-c)	Thermal Impedance, max.	Junction to case	0.42	°C/W

