DIODE(THREE PHASES BRIDGE TYPE)

DF30CA80/120/160







UL;E76102 (M)

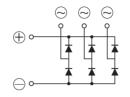
Power Diode Module **DF30CA** is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction output DC current is 30Amp (Tc=122 $^{\circ}$ C) Repetitive peak reverse voltage is up to 1,600V.

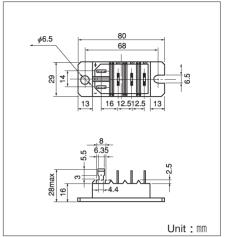
- IFSM=775/850A (50/60Hz)
- TiMax=150°C
- Isolated Mounting Base
- High reliability by unique glass passivation
- Easy Assemble by the #250 terminal Tab

(Applications)

AC. DC Motor Drive/AVR/Switching

—for three phase rectification





■Maximum Ratings

(Tj=25°C)

Symbol	ltom	Ratings			Unit
	Item	DF30CA80 %	DF30CA120	DF30CA160 ※	Offic
VRRM	Repetitive Peak Reverse Voltage	800	1200	1600	V
VRSM	Non-Repetitive Peak Reverse Voltage	960	1300	1700	V

Symbol	Item		Conditions	Ratings	Unit
lD	Output current (D.C.)		Three phase. full wave. Tc=122°C	30	Α
IFSM	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	775/850	Α
Tj	Junction Temperature			− 40∼ + 150	℃
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	Tub Terminal #250		$(kgf \cdot cm)$
	Mass		Typical Value	90	g

■Electrical Characteristics

Symbol	Item Conditions		Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	Tj=150°C at VRRM	12.0	mA
VFM	Forward Voltage Drop, max.	IFM=30A, Tj=25°C Inst. measurement	1.1	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.42	°C/W

DF30CA80/120/160







