DIODE(THREE PHASES BRIDGE TYPE) F30CA80/120/160

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 °C) Repetitive peak reverse voltage is up to 1,600V.

- IFSM=775/850A (50/60Hz)
- 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

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Maximum Batings

Maximum Ratings						
Symbol	Itom	Ratings			Lloit	
	item	DF30CA80 ※	DF30CA120	DF30CA160 ※		
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	А
IFSM	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	775/850	А
Tj	Junction Temperature			-40~+150	°C
Tstg	Storage Temperature			-40~+125	Ĉ
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℃ at VRRM	12.0	mA
Vfm	Forward Voltage Drop, max.	IFM=30A, Tj=25℃ Inst. measurement	1.1	V
Rth (j-c)	Thermal Impedance, max.	Junction to case	0.42	°C/W





DF30CA80/120/160

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