

DIODE(THREE PHASES BRIDGE TYPE)**DF30CA80/120/160**

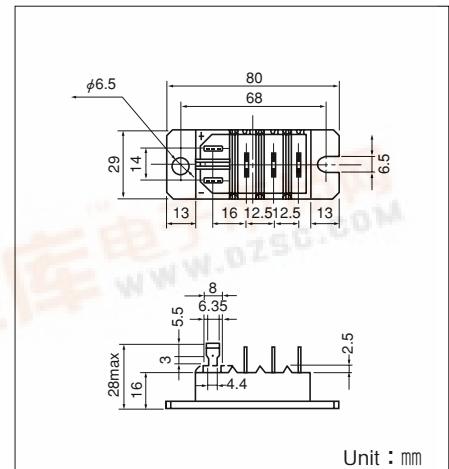
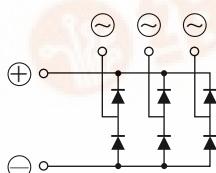
UL;E76102(M)

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 ($T_c=122^\circ\text{C}$) Repetitive peak reverse voltage is up to 1,600V.

- $I_{FSD}=775/850\text{A}$ (50/60Hz)
- $T_{jMax}=150^\circ\text{C}$
- 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



Unit : mm

■Maximum Ratings(T_j=25°C unless otherwise specified)

Symbol	Item	Ratings			Unit
		DF30CA80※	DF30CA120	DF30CA160※	
V _{RRM}	Repetitive Peak Reverse Voltage	800	1200	1600	V
V _{RSM}	Non-Repetitive Peak Reverse Voltage	960	1300	1700	V

Symbol	Item	Conditions	Ratings	Unit
I _D	Output current (D.C.)	Three phase, full wave. $T_c=122^\circ\text{C}$	30	A
I _{FSD}	Surge Forward Current	1 cycle, 50/60Hz, peak value, non-repetitive	775/850	A
T _j	Junction Temperature		-40 to +150	°C
T _{stg}	Storage Temperature		-40 to +125	°C
V _{iso}	Isolation Breakdown Voltage (R.M.S.)	Main Terminal to case 1 minute	2500	V
	Mounting Torque	Mounting (M6) Terminal	Recommended Value 2.5-3.9 (25-40) Tub Terminal # 250	4.7 (48) — (N·m) (kgf·cm)
	Mass	Typical Value	90	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I _{RRM}	Repetitive Peak Reverse Current, max.	T _j =150°C at V _{RRM}	12.0	mA
V _{FM}	Forward Voltage Drop, max.	I _{FM} =30A, T _j =25°C Inst. measurement	1.1	V
R _{th(j-c)}	Thermal Impedance, max.	Junction to case	0.42	°C/W

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