

DIODE MODULE

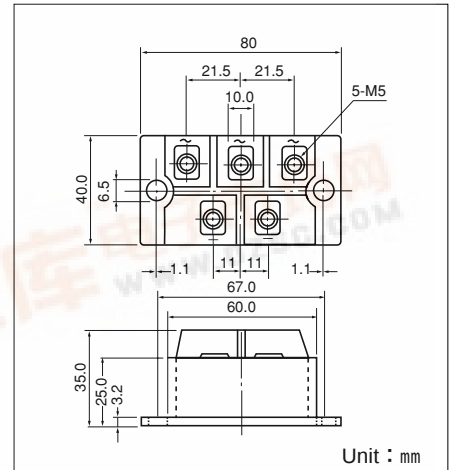
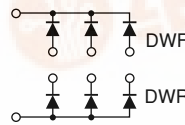
DWF(R)70BB30/40

Power Diode Module DWF(W)70BB is designed for three phase half wave rectification, which has three 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 70Amp ($T_c=106^{\circ}\text{C}$) Repetitive peak reverse voltage is up to 400V.

- $T_{j\text{Max}}=150^{\circ}\text{C}$
- Isolated mounting Base
- High reliability by unique glass passivation

(Applications)

AC, DC Motor Drive/AVR/Switching
-for three phase rectification



Maximum Ratings

(T_j=25°C unless otherwise specified)

Symbol	Item	Ratings		Unit
		DWF(R)70BB30	DWF(R)70BB40	
V _{RRM}	Repetitive Peak Reverse Voltage	300	400	V
V _{RSM}	Non-Repetitive Peak Reverse Voltage	360	480	V

Symbol	Item		Conditions	Ratings	Unit
I _D	Average Forward Current (D.C.)		D.C. T _c : 106°C	70	A
I _{FSM}	Surge Forward Current		1cycle, 60Hz, peak value, non-repetitive	1400	A
I ² t	I ² t		Value for one cycle of surge current	8100	A ² S
T _j	Operating Junction Temperature			-40 to +150	°C
T _{stg}	Storage Temperature			-40 to +125	°C
V _{iso}	Isolation Breakdown Voltage (R.M.S.)		A.C. 1minute	2500	V
	Mounting Torque	Mounting (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	N·m (kgf·cm)
		Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	
	Mass		Typical Value	200	g

Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I _{RRM}	Repetitive Peak Reverse Current	T _j =150°C at V _{RRM}			12	mA
V _{FM}	Forward Voltage Drop	T _j =25°C, I _{FM} =220A, Inst. measurement			1.15	V
R _{th(j-c)}	Thermal Impedance	Junction to case (1/3 MODULE)			0.55	°C/W

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