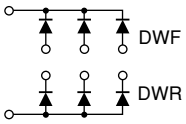
DIODE MODULE

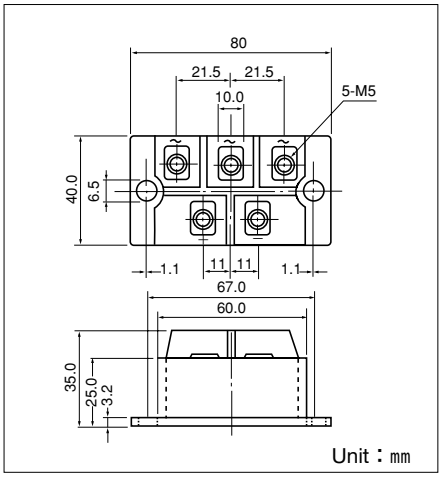
DWF(R)70BB30/40

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 （Tc＝106℃） Repetitive peak reverse voltage is up to 400V.

- TjMax＝150℃
- Isolated mounting Base
- High reliability by unique glass passivation

（**Applications**）
AC, DC Motor Drive/AVR/Switching
-for three phase rectification





■Maximum Ratings

（Tj＝25℃ 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

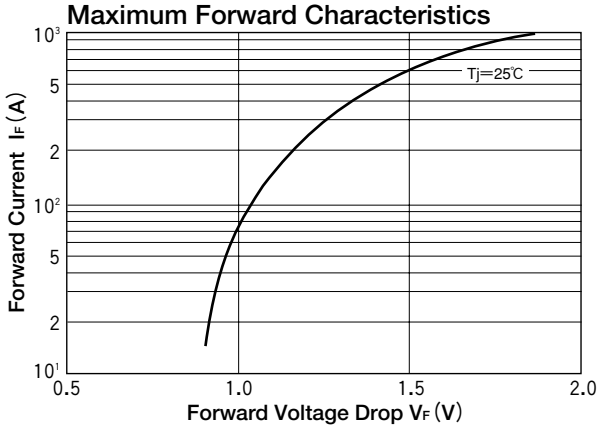
Symbol	Item		Conditions	Ratings	Unit
I_D	Average Forward Current (D.C.)		D.C. T_C：106℃	70	A
I_{FSM}	Surge Forward Current		1cycle, 60Hz, peak value, non-repetitive	1400	A
I^2t	I^2t		Value for one cycle of surge current	8100	A^2S
Tj	Operating Junction Temperature			−40 to +150	℃
Tstg	Storage Temperature			−40 to +125	℃
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

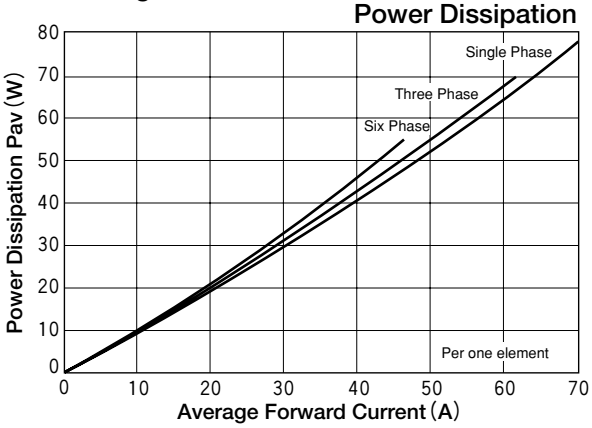
Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{RRM}	Repetitive Peak Reverse Current	T_j＝150℃ at V_{RRM}			12	mA
V_{FM}	Forward Voltage Drop	T_j＝25℃, I_{FM}＝220A, Inst. measurement			1.15	V
Rth(j-c)	Thermal Impedance	Junction to case（⅓ MODULE）			0.55	℃/W

SanRex

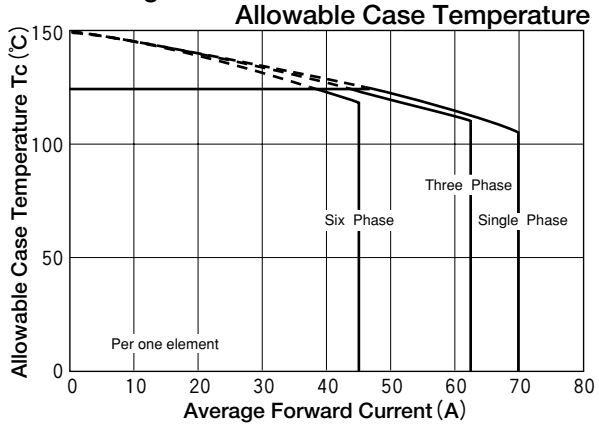
Maximum Forward Characteristics



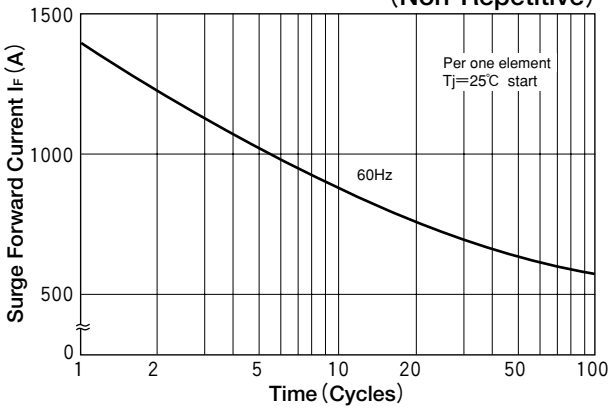
Average Forward Current vs. Power Dissipation



Average Forward Current vs. Allowable Case Temperature



Cycle Surge Forward Current Rating (Non-Repetitive)



Transient Thermal Impedance (max)

