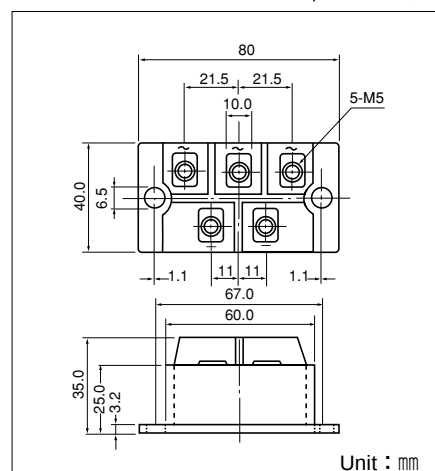
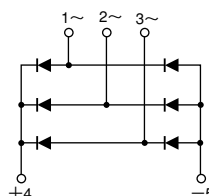


DF60BA40/80

Power Diode Module **DF60BA** 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 60Amp ($T_c=115^{\circ}\text{C}$) Repetitive peak reverse voltage is up to 800V.

- TjMax=150°C
- Isolated Mounting Base
- High reliability by unique glass passivation

AC. DC Motor Drive/AVR/Switching
—for three phase rectification



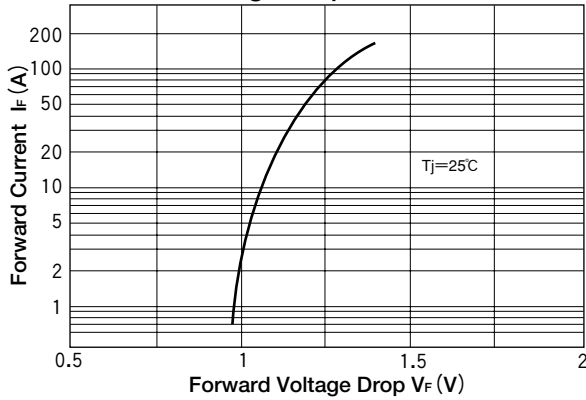
(Tj=25°C unless otherwise specified)

Symbol	Item	Ratings		Unit
		DF60BA40	DF60BA80	
V _{RRM}	Repetitive Peak Reverse Voltage	400	800	V
V _{RSM}	Non-Repetitive Peak Reverse Voltage	480	960	V

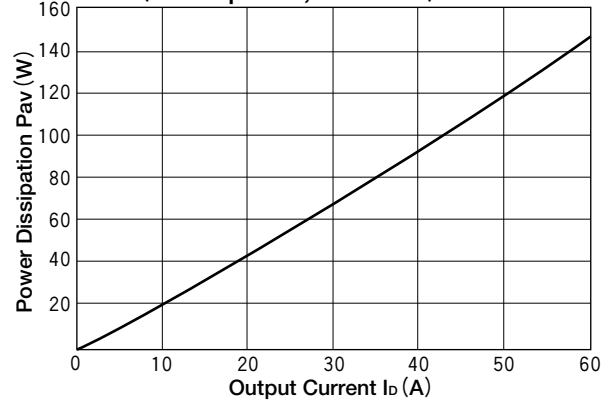
Symbol	Item		Conditions	Ratings	Unit
I _D	Output current (D.C.)		Three phase. full wave. T _c =115℃	60	A
I _{FSM}	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	910/1000	A
T _j	Junction Temperature			−40 to +150	℃
T _{stg}	Storage Temperature			−40 to +125	℃
V _{iso}	Isolation Breakdown Voltage (R.M.S.)		Main Terminal to case 1minute	2500	V
	Mounting Torque	Mounting (M6)	Recommended Value 2.5-3.9 (25-40)	4.7 (48)	N·m (kgf·cm)
		Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	
	Mass		Typical Value	200	g

Symbol	Item	Conditions	Ratings	Unit
I_{RRM}	Repetitive Peak Reverse Current, max.	$T_j=150^{\circ}\text{C}$ at V_{RRM}	6.0	mA
V_{FM}	Forward Voltage Drop, max.	$I_{FM}=60\text{A}$, $T_j=25^{\circ}\text{C}$ Inst. measurement	1.2	V
$R_{th(j-c)}$	Thermal Impedance, max.	Junction to case	0.24	$^{\circ}\text{C/W}$

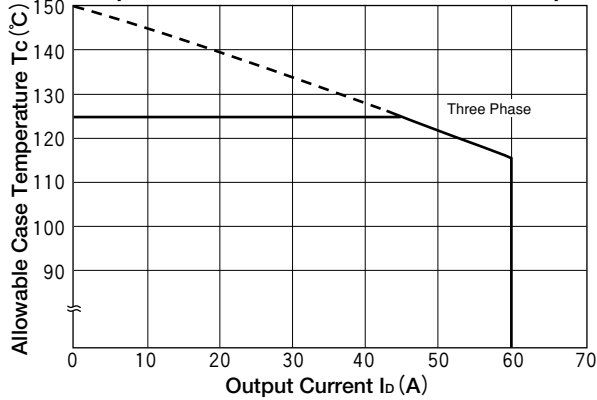
Forward Voltage Drop max.



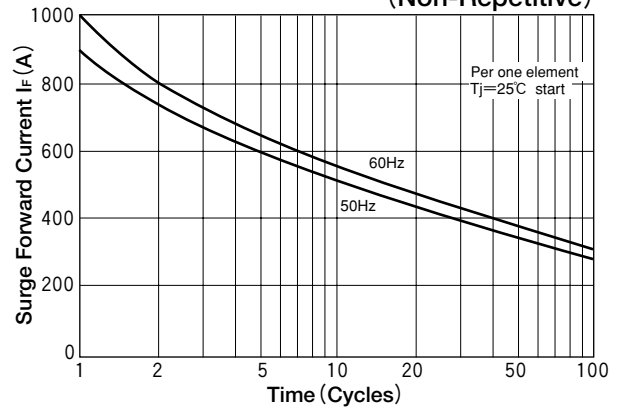
Output Current vs. Power Dissipation, max. (Three phase, full wave)



Output Current vs. Allowable case Temp



Cycle Surge Forward Current Rating (Non-Repetitive)



Transient Thermal Impedance (max)

