

DIODE (THREE PHASES BRIDGE TYPE)**DF60BA40/80**

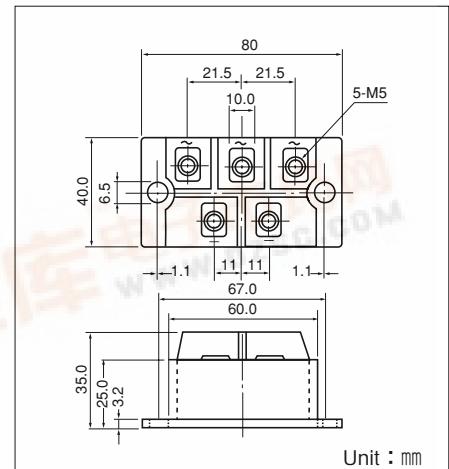
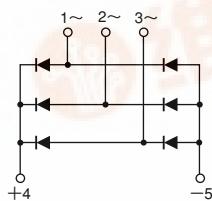
UL:E76102(M)

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.

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

(Applications)

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

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

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. $T_c=115^\circ\text{C}$	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	°C
T _{stg}	Storage Temperature		-40 to +125	°C
V _{iso}	Isolation Breakdown Voltage (R.M.S.)	Main Terminal to case 1minute	2500	V
	Mounting Torque	Mounting (M6) Terminal (M5)	Recommended Value 2.5-3.9 (25-40) Recommended Value 1.5-2.5 (15-25)	4.7 (48) N·m 2.7 (28) (kgf·cm)
	Mass	Typical Value	200	g

■Electrical Characteristics

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	°C/W

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