

DIODE (THREE PHASES BRIDGE TYPE)

DF60BA40/80

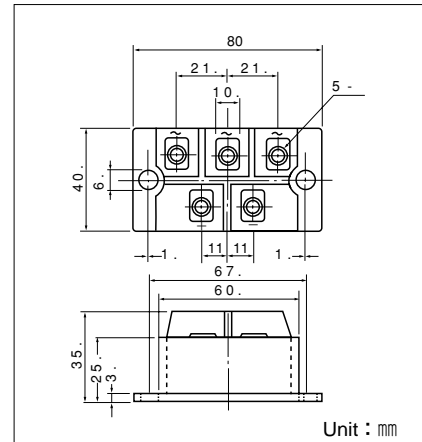
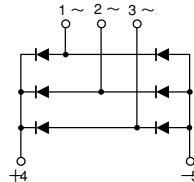
UL;E76102(M)

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



Maximum Ratings

($T_j = 25^\circ\text{C}$, U_n)

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 t $+150$	$^\circ\text{C}$
T_{stg}	Storage Temperature		-40 t $+125$	$^\circ\text{C}$
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
		Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	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	$^\circ\text{C}/\text{W}$

