

DIODE(THREE PHASES BRIDGE TYPE)

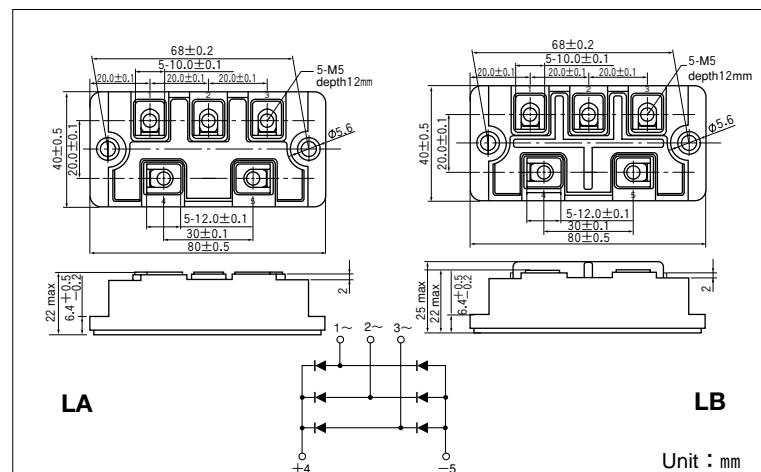
DF60LA/LB80/160

Power Diode Module DF60LA/LB 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 (Tc=111°C) Repetitive peak reverse voltage is up to 1600V.

- T_jMAX=150°C

- Isolated Mounting Base
(Applications)

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



■ Maximum Ratings

(T_j=25°C unless otherwise specified)

Symbol	Item	Ratings		unit
		DF60LA/LB80	DF60LA/LB160	
V _{RRM}	Repetitive Peak Reverse Voltage	800	1600	V
V _{RSM}	Non-Repetitive Peak Reverse Voltage	960	1700	V

Symbol	Item	Conditions	Ratings	unit
I _D	Output Current (D.C.)	Three phase full wave, T _c =111°C	60	A
I _{FSM}	Surge Forward Current	½cycle, 50/60Hz, Peak value, non-repetitive	730/800	A
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		100	g

■ Electrical Characteristics

Symbol	Item	Conditions	Ratings	unit
I _{RRM}	Repetitive Peak Reverse Current, max.	T _j =150°C, V _R =V _{RRM}	8	mA
V _{FM}	Forward Voltage Drop, max.	I _F =60A, Inst. measurement	1.30	V
R _{th(j-c)}	Thermal Impedance, max.	Junction to case	0.25	°C/W

