

## DIODE(THREE PHASES BRIDGE TYPE)

# DF75LA/LB80/160

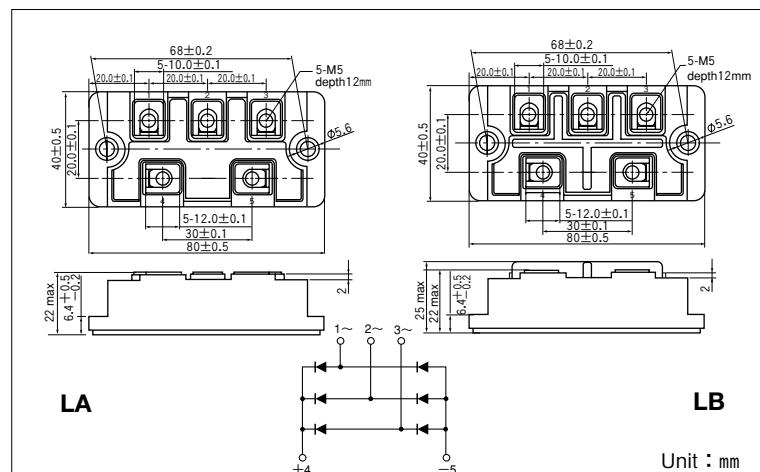
Power Diode Module DF75LA/LB is designed for three phase full wave rectification, which has six diodes connected in a three phase bridge configuration. The mounting base of the module is electrically isolated from semiconductor elements for simple heatsink construction output DC current is 75Amp (Tc=101°C) Repetitive peak reverse voltage is up to 1600V.

- TjMAX=150°C

- Isolated Mounting Base

(Applications)

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



### ■ Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	Item	Ratings		unit
		DF75LA/LB80	DF75LA/LB160	
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage	800	1600	V
V <sub>RSM</sub>	Non-Repetitive Peak Reverse Voltage	960	1700	V

Symbol	Item	Conditions	Ratings	unit
I <sub>D</sub>	Output Current (D.C.)	Three phase full wave, Tc=101°C	75	A
I <sub>FSM</sub>	Surge Forward Current	½cycle, 50/60Hz, Peak value, non-repetitive	910/1000	A
T <sub>j</sub>	Operating Junction Temperature		-40 to +150	°C
T <sub>stg</sub>	Storage Temperature		-40 to +125	°C
V <sub>iso</sub>	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 <sub>RRM</sub>	Repetitive Peak Reverse Current, max.	T <sub>j</sub> =150°C, V <sub>R</sub> =V <sub>RRM</sub>	8	mA
V <sub>FM</sub>	Forward Voltage Drop, max.	I <sub>F</sub> =75A, Inst. measurement	1.30	V
R <sub>th(j-c)</sub>	Thermal Impedance, max.	Junction to case	0.25	°C/W

