

## DIODE(THREE PHASES BRIDGE TYPE)

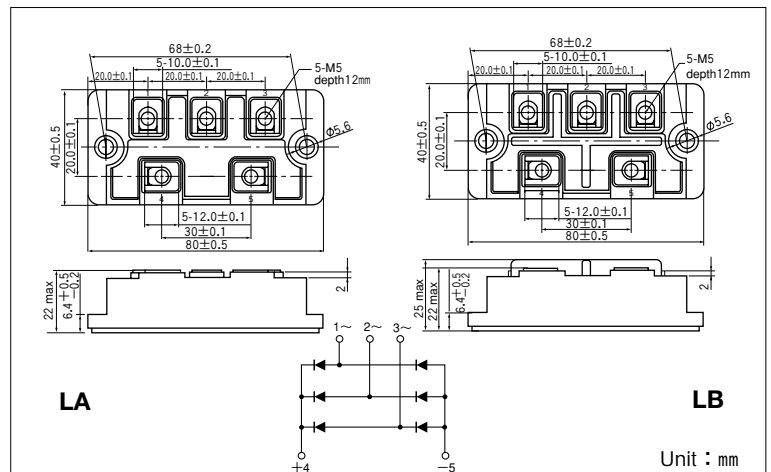
# DF75LA/LB80/160

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 ( $T_c=101^\circ\text{C}$ ) Repetitive peak reverse voltage is up to 1600V.

- $T_{j\text{MAX}}=150^\circ\text{C}$
- Isolated Mounting Base

### (Applications)

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



### Maximum Ratings

( $T_j=25^\circ\text{C}$  unless otherwise specified)

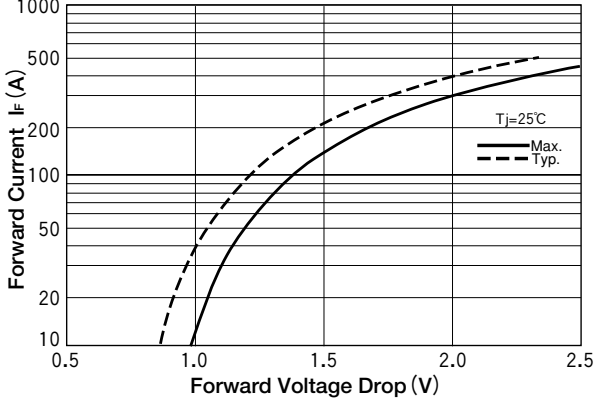
Symbol	Item	Ratings		unit
		DF75LA/LB80	DF75LA/LB160	
$V_{RRM}$	Repetitive Peak Reverse Voltage	800	1600	V
$V_{RSM}$	Non-Repetitive Peak Reverse Voltage	960	1700	V

Symbol	Item	Conditions	Ratings	unit	
$I_D$	Output Current (D.C.)	Three phase full wave, $T_c=101^\circ\text{C}$	75	A	
$I_{FSM}$	Surge Forward Current	$\frac{1}{2}$ cycle, 50/60Hz, Peak value, non-repetitive	910/1000	A	
$T_j$	Operating Junction Temperature		-40 to +150	$^\circ\text{C}$	
$T_{stg}$	Storage Temperature		-40 to +125	$^\circ\text{C}$	
$V_{iso}$	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	

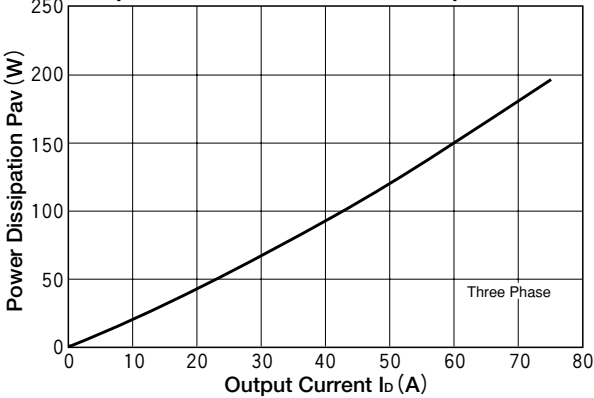
### Electrical Characteristics

Symbol	Item	Conditions	Ratings	unit
$I_{RRM}$	Repetitive Peak Reverse Current, max.	$T_j=150^\circ\text{C}$ , $V_R=V_{RRM}$	8	mA
$V_{FM}$	Forward Voltage Drop, max.	$I_F=75\text{A}$ , Inst. measurement	1.30	V
$R_{th(j-c)}$	Thermal Impedance, max.	Junction to case	0.25	$^\circ\text{C/W}$

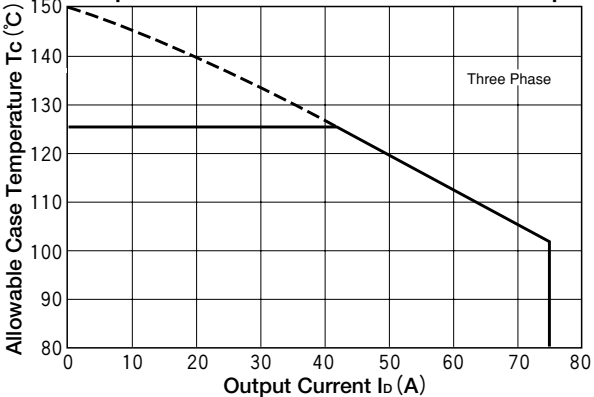
**Maximum Forward Characteristics**



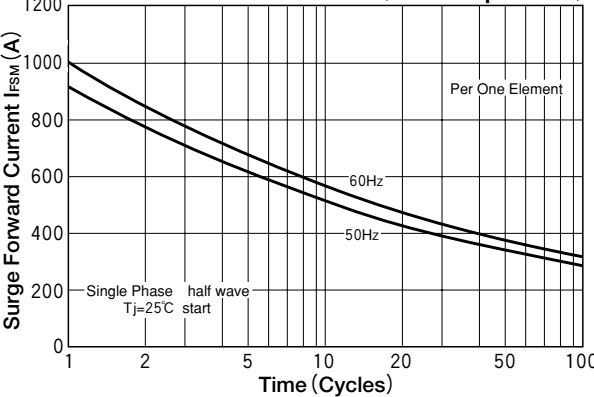
**Output Current vs. Power Dissipation**



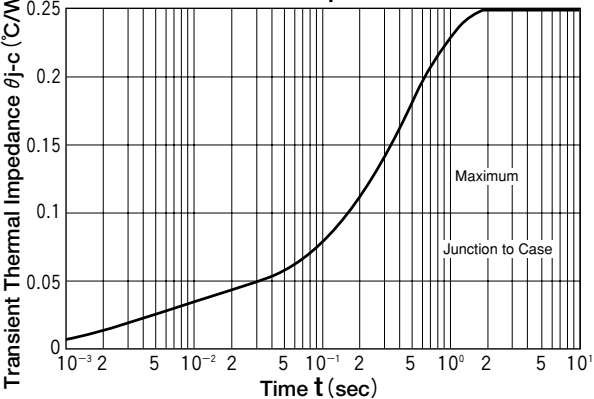
**Output Current vs. Allowable case Temp**



**Cycle Surge Forward Current Rating (Non-Repetitive)**



**Transient Thermal Impedance**



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