

DIODE(THREE PHASES BRIDGE TYPE)

DF20BA40/80

TOP



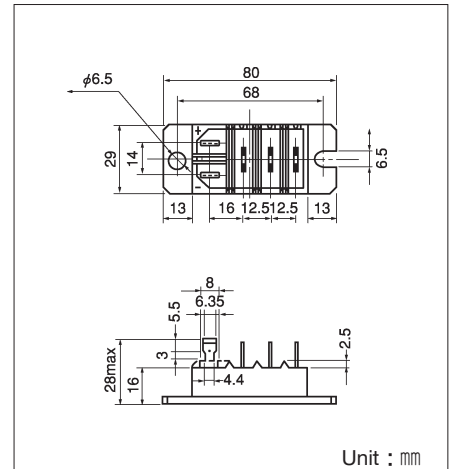
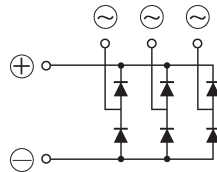
UL;E76102 (M)

Power Diode Module **DF20BA** 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 20Amp ($T_c=123^{\circ}\text{C}$) 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
- Easy Assemble by the #250 terminal Tab

(Applications)

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



Unit : mm

Maximum Ratings

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

Symbol	Item	Ratings		Unit
		DF20BA40	DF20BA80	
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. $T_c=123^{\circ}\text{C}$	20	A
I_{FSM}	Surge Forward Current		1 cycle, 50/60Hz, peak value, non-repetitive	320/350	A
T_j	Junction Temperature			$-40 \sim +150$	$^{\circ}\text{C}$
T_{stg}	Storage Temperature			$-40 \sim +125$	$^{\circ}\text{C}$
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 (kgf·cm)
		Terminal	Tub Terminal #250	—	
	Mass		Typical Value	90	g

Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
I_{RRM}	Repetitive Peak Reverse Current, max.	$T_j=150^{\circ}\text{C}$ at V_{RRM}	1.5	mA
V_{FM}	Forward Voltage Drop, max.	$I_{FM}=20\text{A}$, $T_j=25^{\circ}\text{C}$ Inst. measurement	1.1	V
$R_{th(j-c)}$	Thermal Impedance, max.	Junction to case	0.6	$^{\circ}\text{C/W}$

