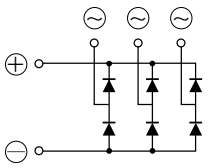
DIODE(THREE PHASES BRIDGE TYPE)

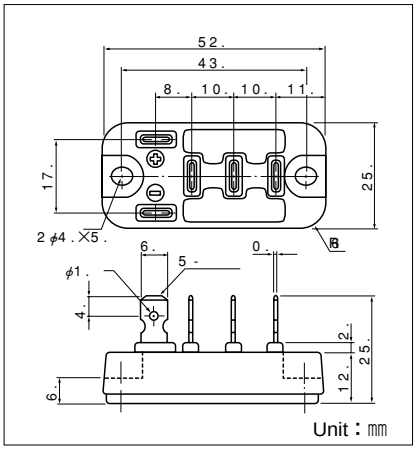
DF20DB40/80

Power Diode Module **DF20DB** 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 (Tc=97℃) Repetitive peak reverse voltage is up to 800V.

- TjMax=150℃
- Isolated Mounting Base
- High reliability by unique glass passivation
- Easy Assemble by the #250 terminal Tab

（**Applications**）
AC. DC Moter Drive/AVR/Switching
—for three phase rectification





■Maximum Ratings

（Tj＝25℃unless otherwise noted）

Symbol	Item	Ratings		Unit
		DF20DB40	DF20DB80	
VRRM	Repetitive Peak Reverse Voltage	400	800	V
VRSM	Non-Repetitive Peak Reverse Voltage	500	900	V

Symbol	Item	Conditions	Ratings	Unit
ID	Output current (D.C.)	Three phase. full wave. Tc＝97℃	20	A
IFSM	Surge Forward Current	1 cycle, 50/60Hz, peak value, non-repetitive	320/350	A
Tj	Junction Temperature		−40 to ＋150	℃
Tstg	Storage Temperature		−40 to ＋125	℃
VISO	Isolation Breakdown Voltage（R.M.S.）	Main Terminal to case 1minute	2000	V
	Mounting Torque（M4）	Recommended Value 1.0-1.4（10-14）	1.5（15）	N・m (kgf・cm)
	Mass	Typical Value	32	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max.	Tj＝150℃ at VRRM	1.5	mA
VFM	Forward Voltage Drop, max.	IFM＝20A, Tj＝25℃ Inst. measurement	1.1	V
Rth(j-c)	Thermal Impedance, max.	Junction to case	1.2	℃/W

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