DIODE(THREE PHASES BRIDGE TYPE) DF75AA120/160

UL;E76102(M)

Power Diode Module **DF75AA** 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 isolted from semiconductor elements for simple heatsink construction. Output DC current is 75Amp ($Tc=100^{\circ}C$) Repetitive peak reverse voltage is up to 1600V.

- TjMax=150°C
- Isolated mounting base
- High reliability by unique glass passivation

(Applications)

- AC, DC Motor Drive/AVR/Switching
- -for three phase rectification





Maximum Ratings

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

Symbol	Item	Ratings		Unit
	Item	DF75AA120	DF75AA160	Unit
Vrrm	Repetitive Peak Reverse Voltage	1200	1600	V
Vrsm	Non-Repetitive Peak Reverse Voltage	1300	1700	V

Symbol	I	tem	Conditions	Ratings	Unit
lo	Output Curre	nt (D.C.)	Three Phase full wave. Tc=100°C	75	A
IFSM	Surge Forward Current		1cycle, 50/60Hz, peak value, non-repetitive	910/1000	A
l²t	l²t		Value for one of surge curent	4100	A ² S
Tj	Operating Junction Temperature			-40 to $+150$	Ĉ
Tstg	Storage Temperature			-40 to +125	Ĵ
Viso	Isolation Breakdo	own Voltage (R.M.S.)	A.C. 1 minute	2500	V
	Mounting Torque	Mounting (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	N∙m
		Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	(kgf·cm)
	Mass		Typical Value	160	g

Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
Irrm	Repetitive Peak Reverse Current, max.	Tj=150℃ at VRRM	10.0	mA
Vfm	Forward Voltage Drop, max.	Tj=25°С, IFM=75А, Inst. measurement	1.40	V
Rth(j-c)	Thermal Impedance, max.	Junction to case	0.24	°C/W







