DIODE MODULE (F.R.D.)

FRS400DA100/120







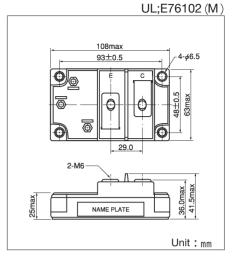
FRS400DA is a high speed isolated diode module designed for high power switching application. FRS400DA is suitable for high frequency application requiring low loss and high speed control.

- High Speed trr≦200ns
- IF (AV) 400A
- Isolated Mounting base.
- High Surge Capability

(Applications)

Inverter Welding Power Supply Power Supply for Telecommunication Various Switching Power Supply.





Maximum Ratings

(Tj=25°C)

Symbol	Item	Ratings		
		FRS400DA100	FRS400DA120	Unit
VRRM	Repetitive Peak Reverse Voltage	1000	1200	V
VR (DC)	D.C. Reverse Voltage	800	960	V

Symbol	I1	tem	Conditions	Ratings	Unit
lF	Forward Current		D.C. Tc ∶38°C	400	Α
Iгsм	Surge Forward Current		½ cycle, 60Hz, peak value, non-repetitive	4000	А
l²t	l²t		Value for one cycle of surge current	66640	A ² S
Tj	Operating Junction Temperature			− 40∼ + 150	°C
Tstg	Storage Temperature			− 40∼ + 125	°C
Viso	Isolation Breakdown Voltage (R.M.S.)		A.C. 1 minute	2500	V
	Mounting	Mounting (M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	N·m
	Torque	Terminal (M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	(kgf·cm)
	Mass		Typical Value	460	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings			Unit		
			Min.	Тур.	Max.	Unit		
Irrm	Repetitive Peak Reverse Current	VR=VRRM, Tj=150°C			20	mA		
VFM	Forward Voltage Drop	IF=400A, Inst, measurement		2.4	2.8	V		
trr	Reverse Recovery Time	IF=400A, $-di/dt=400A/\mu s$		180	200	ns		
Rth (j-c)	Thermal Impedance	Junction to case			0.1	°C/W		

FRS400DA100/120







