

FRS400CA120

UL; E76102

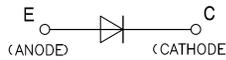
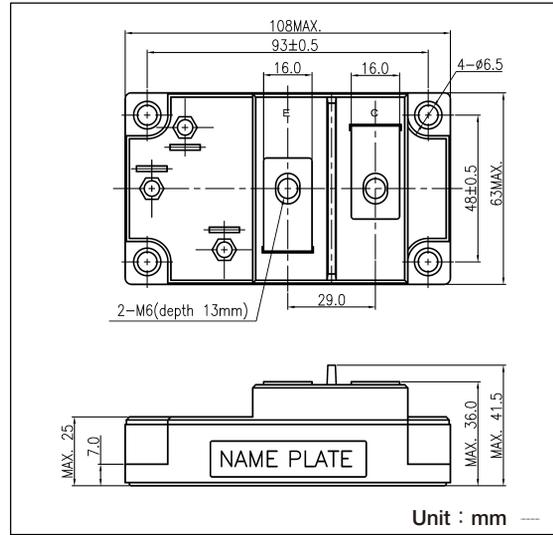
《Features》

FRS400CA is a high speed (fast recovery) isolated diode module designed for high power switching application. FRS400CA is suitable for high frequency application requiring low loss and high speed control.

- High Speed $t_{rr} \leq 400\text{ns}$
- I_F (AV) 400A
- Isolated Mounting base.
- High Surge Capability

《Applications》

- Inverter Welding Power Supply / Power Supply for Telecommunication / Various Switching Power Supply



Unit : mm

■ Maximum Ratings (T_j=25°C unless otherwise specified)

Item	Symbol	Unit	FRS400CA120
Repetitive Peak Reverse Voltage	V _{RRM}	V	1200
Reverse D.C. Voltage	V _{R(DC)}	V	960

Item	Symbol	Unit	Ratings	Conditions
Forward Current	I _F	A	400	D.C., T _C =78°C
Surge forward current	I _{FSM}	A	4000	1/2cycle, 60Hz, peak value, non-repetitive
I ² t (for fusing)	I ² t	A ² s	66640	Value for one cycle of surge current
Operating Junction Temperature	T _j	°C	-40 to +150	
Storage Temperature	T _{stg}	°C	-40 to +125	
Isolation Voltage (R.M.S.)	V _{ISO}	V	2500	A.C., 1minute
Mounting Torque	Mounting M6	N·m (kgf·cm)	4.7(48)	Recommended Value 2.5 to 3.9 (25 to 40)
	Terminal M6			
Mass		g	460	Typical value

■ Electrical Characteristics (T_j=25°C unless otherwise specified)

Item	Symbol	Unit	Ratings			Conditions
			Min.	Typ.	Max.	
Repetitive Peak Reverse Current	I _{RRM}	mA			20	V _R =V _{RRM} , T _j =150°C
Forward Voltage Drop	V _{FM}	V			1.8	I _F =400A, Inst. measurement
Reverse Recovery Time	t _{rr}	ns			400	I _F =400A, -di/dt=400A/μs
Thermal Resistance (Junction to case)	R _{th(j-c)}	°C/W			0.1	Per a Module

