DIODE MODULE (F.R.D.)

FRG25CA120







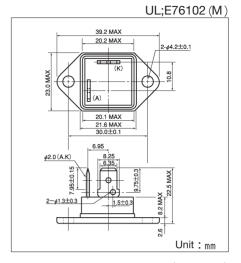
FRG25CA120 is a high speed isolated diode module designed for high power switching application. **FRG25CA120** is suitable for high frequency application requiring low loss and high speed control.

- High Speed trr≤200ns
- IF(AV) 25A
- 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	Unit
		FRG25CA120	
VRRM	Repetitive Peak Reverse Voltage	1200	V
VR (DC)	D.C. Reverse Voltage	960	V

Symbol	Item	Conditions	Ratings	Unit
lF	Forward Current	D.C. Tc:78℃	25	Α
IFSM	Surge Forward Current	¹/₂ cycle, 60Hz, peak value, non-repetitive	400	Α
l²t	l²t	Value for one cycle surge current	660	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 Torque (Mounting M4)	Recommended Value 1.0~1.4 (10~14)	1.5 (15)	N⋅m (kgf⋅cm)
	Mass	Typical Value	23	g

■Electrical Characteristics

(Tj=25℃)

Symbol	Item	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max	Tj=125°C at VRRM=1200V	1	mA
VFM	Forward Voltage Drop,max	Tj=25℃ IF=25A, Inst. measurement	1.80	V
trr	Reverse Recovery Time, max	IF=25A, -di/dt=100A/ μ s	200	ns
Rth (j-c)	Thermal Impedance, max	Junction to case	1.6	°C/W

FRG25CA120







