## **DIODE MODULE** (F.R.D.)

## **FRS150BA50**







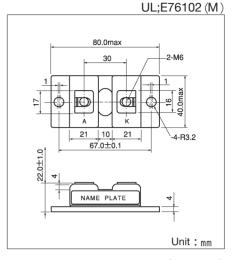
FRS150BA50 is a high speed isolated diode module designed for high power switching application. FRS150BA50 is suitable for high frequency application requiring low loss and high speed control.

- High Speed trr≤200ns
- IF (AV) 150A
- 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	
		FRS150BA50	Unit
VRRM	Repetitive Peak Reverse Voltage	500	V
VR (DC)	D.C. Reverse Voltage	400	V

Symbol	Item		Conditions	Ratings	Unit
lF	Forward Current		D.C. Tc : 85℃	150	А
lгsм	Surge Forward Current		½ cycle, 60Hz, peak value, non-repetitive	3000	А
l²t	l²t		Value for one cycle of surge current	37500	A <sup>2</sup> S
Tj	Operating June	ction Temperature		<b>−</b> 40∼ <b>+</b> 150	°C
Tstg	Storage Tem	perature		<b>−</b> 40∼ <b>+</b> 125	°C
Viso	Isolation Breakdown Voltage (R.M.S.)		A.C. 1 minute	2500	V
	Mounting Torque	Mounting (M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	N·m
		Terminal (M6)	Recommended Value 2.5~3.9 (25~40)	4.7 (48)	(kgf·cm)
	Mass		Typical Value	170	g

## **■**Electrical Characteristics

Symbol	Item	Conditions	Ratings			Linit
			Min.	Тур,	Max.	Unit
IRRM	Repetitive Peak Reverse Current	VRRM =500V, Tj=125 ℃			150	mA
VFM	Forward Voltage Drop	IF=150A, Inst. measurement			1.30	V
trr	Reverse Recovery Time	I==150A, $-di/dt=150A/\mu s$			200	ns
Rth (j-c)	Thermal Impedance	Junction to case			0.33	°C/W

## FRS150BA50







