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

## FRD/FDS100BA60







UL;E76102 (M)

FRD (FDS)100BA is a high speed dual diode module designed for high power switching application. FRD(FDS)100BA is suitable for high frequency application requiring low loss and high speed control.

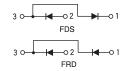
- High Speed trr≤100ns
- IF(AV) 100A (each device)
- Isolated mounting construction.
- High Surge Capability

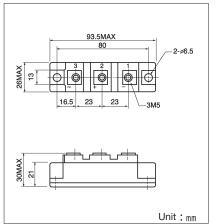
(Applications)

Switching Power Supply, Inverter Welding Power

Supply

Power Supply for Telecommunication





Maximum Ratings

(Tj=25°C)

Symbol	Item	Ratings	Unit
VRRM	Repetitive Peak Reverse Voltage	600	V
VR (DC)	D.C. Reverse Voltage	480	V

Symbol	Item		Conditions	Ratings	Unit
lF	Forward Current		D.C. Tc : 94℃	100	Α
IFSM	Surge Forward Current		½ cycle, 60Hz, peak value, non-repetitive	2000	Α
l²t	l²t		Value for One cycle of surge curent	16700	A <sup>2</sup> S
Tj	Operating Junction Temperature			<b>−</b> 40∼ <b>+</b> 150	c
Tstg	Storage Temperature			<b>−</b> 40∼ <b>+</b> 125	Ĵ
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)	Nm (kgf·cm)
		Terminal (M5)	Recommended Value 1.5~2.5 (15~25)	2.7 (28)	
	Mass			170	g

## **■**Electrical Characteristics

Symbol	ltem	Conditions	Ratings	Unit
IRRM	Repetitive Peak Reverse Current, max. VR=VRRM, Tj=125°C		100	mA
VFM	Forward Voltage Drop, max. Forward current 100A, Inst. measurement		1.3	V
Rth(j-c)	Thermal Impedance, max. Junction to case		0.4	°C/W
trr	Reverse Recovery Time, max.	IF=100A, di/dt= $-100A/\mu$ s	100	ns

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