DIODE MODULE (F.R.D.)

FRD/FDS100BA60







UL;E76102(M)

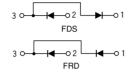
FRD(FDS)100BA is a high speed (fast recovery) dual diode module designed for high power switching application. FRD(FDS) 100BA is suitable for high frequency application requiring low loss and high speed control.

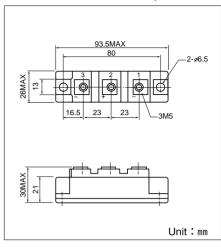
- High Speed trr≤100ns
- IF(AV) 100A (each device)
- Isolated mounting construction.
- High Surge Capability

(Applications)

Switching Power Supply, Inverter Welding Power Supply

Power Supply for Telecommunication





■ Maximum Ratings

(Tj=25°C unless otherwise specified)

Symbol	Item	Ratings	Unit
VRRM	Repetitive Peak Reverse Voltage	600	٧
V _R (DC)	D.C. Reverse Voltage	480	V

Symbol	li.	tem	Conditions	Ratings	Unit
lF	Forward Current		D.C. Tc∶94°C	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 ² S
Tj	Operating Junction Temperature			-40 to $+150$	°C
Tstg	Storage Temperature			-40 to +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)	Nm
		Terminal (M5)	Recommended Value 1.5-2.5 (15-25)	2.7 (28)	(kgf·cm)
	Mass			170	g

■Electrical Characteristics

Symbol	Item	Conditions	Ratings		Unit
			Тур.	Max.	Uillt
IRRM	Repetitive Peak Reverse Current, max.	VR=VRRM, Tj=125°C		100	mA
VFM	Forward Voltage Drop, max.	Forward current 100A, Inst. measurement	1.15	1.3	٧
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	85	100	ns