DIODE MODULE (F.R.D.)

FRD/FDS100BA60







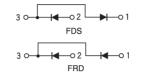
FRD (FDS)100BA is a high speed dual diode module designed for high power switching application. FRD (FDS)100BA is suitable for high frequency application requiring low loss and high speed control.

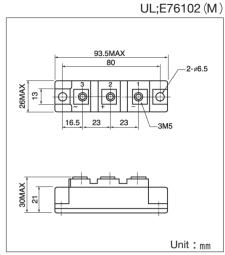
- High Speed trr≤100ns
- IF(AV) 100A (each device)
- Isolated mounting construction.
- High Surge Capability

(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°C	100	Α
IFSM	Surge Forward Current		½ cycle, 60Hz, peak value, non-repetitive	2000	Α
l²t	2 †		Value for One cycle of surge curent	16700	A ² S
Tj	Operating Junction Temperature			− 40∼ + 150	℃
Tstg	Storage Temperature			− 40∼ + 125	$^{\circ}$
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	Item	Conditions	Ratings	Unit				
IRRM	Repetitive Peak Reverse Current, max.	VR=VRRM, Tj=125℃	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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