# Fast recovery Diodes (Silicon Epitaxial Planar)

# RF 🗆 🗆 1 series

#### Applications

High frequency rectification

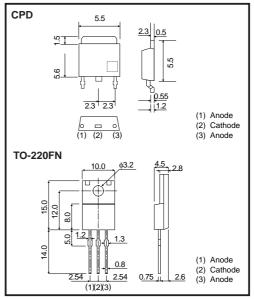
#### Features

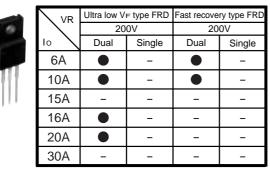
- 1) Ultra low V<sub>F</sub> very fast recovery
- 2) Fast recovery

TO-220FN

- 3) Low switching loss
- 4) Standard package TO-220FN, CPD

#### •External dimensions (Unit : mm)





Center tap type cathode common, Dual elements CPD

**CPD** Center tap type cathode common, Dual elements

	VR	Ultra low V	F type FRD	Fast recovery type FRD		
		20	0V	200V		
	10	Dual	Single	Dual	Single	
No. 1	ЗA	I	•	I		
0	5A	-	•	-		
	6A	•	-	•	-	
	10A	-	-	_	-	

## Diodes

### ●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits								Unit		
Parameter	Symbol	RF071M2S	RF101L2S	RF301B2S	RF501B2S	RF601B2D	RF601T2D	RF1001T2D	RF1601T2D	RF2001T2D		
Reverse voltage (repetitive peak)	Vrm	200	200	200	200	200	200	200	200	200	V	
Reverse voltage (DC)	VR	200	200	200	200	200	200	200	200	200	V	
Average rectified forward current	lo	0.7 *1	1.0 *1	3.0 *1	5.0 <sup>*1</sup>	6.0 *1	6.0 * <sup>1</sup>	10.0 *1	16.0 *1	20.0 *1	Α	
Forward peak surge current (60Hz ·1cyc.)	IFSM	15	20	60	60	60	80	80	80	80	Α	
Junction temperature	Tj	150	150	150	150	150	150	150	150	150	Ĉ	
Storage temperature	Tstg	-55 to +150	-55 to +150	-55 to +150	-55 to +150	-55 to +150	-55 to +150	-55 to +150	-55 to +150	-55 to +150	C	
Mounting on glass epoxi board												

#### •Electrical characteristics (Ta=25°C)

Part No.	10	VR	Max	VF			R	trr		Configurate	Package
	-		Max.	Тур.	IF	Max.	Тур.	Max.	Тур.	3	
RF071M2S	0.7A	200V	0.850V	0.790V	0.7A	10μΑ	10nA	25ns	12ns	Single	PMDU
RF101L2S	1A	200V	0.870V	0.815V	1A	10μΑ	10nA	25ns	12ns	Single	PMDS
RF301B2S	ЗA	200V	0.930V	0.870V	ЗA	10μΑ	10nA	25ns	14ns	Cathode common	CPD(D-pack)
RF501B2S	5A	200V	0.930V	0.870V	5A	10μΑ	10nA	30ns	15ns	Single	CPD(D-pack)
RF601B2D	6A	200V	0.930V	0.870V	ЗA	10μΑ	10nA	25ns	14ns	Cathode common	CPD(D-pack)
RF601T2D	6A	200V	0.930V	0.870V	ЗA	10μΑ	10nA	25ns	14ns	Cathode common	TO-220FN
RF1001T2D	10A	200V	0.930V	0.870V	5A	10μΑ	10nA	30ns	15ns	Cathode common	TO-220FN
RF1601T2D	16A	200V	0.930V	0.870V	8A	10μΑ	10nA	30ns	18ns	Cathode common	TO-220FN
RF2001T2D	20A	200V	0.930V	0.870V	10A	10μΑ	10nA	30ns	20ns	Cathode common	TO-220FN

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