Diodes

Fast recovery Diodes (Silicon Epitaxial Planar)

RF □ □ 1 series

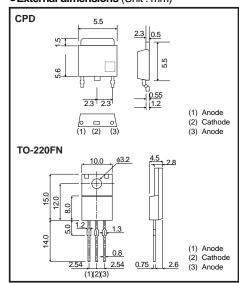
Applications

High frequency rectification

● Features

- 1) Ultra low V_F very fast recovery
- 2) Fast recovery
- 3) Low switching loss
- 4) Standard package TO-220FN, CPD

●External dimensions (Unit : mm)



TO-220FN Center tap type cathode common, Dual elements



٠.	To the tap type called comment and comments									
	\ vr	Ultra low V	F type FRD	Fast recovery type FRD						
	\	20	0V	200V						
	lo \	Dual	Single	Dual	Single					
	6A	•	1	•	ı					
	10A	•	-	•	-					
	15A	-	-	-	-					
	16A	•	-	-	-					
	20A	•	_	_	_					
	30A	-	-	-	_					

CPD Center tap type cathode common, Dual elements



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,									
\ VR	Ultra low V	r type FRD	Fast recovery type FRD						
/	20	0V	200V						
lo \	Dual	Single	Dual	Single					
3A	-	•	-	•					
5A	-	•	-	•					
6A	•	_	•	-					
10A	_	-	-	-					

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits								Unit	
Farameter	Symbol	RF071M2S	RF101L2S	RF301B2S	RF501B2S	RF601B2D	RF601T2D	RF1001T2D	RF1601T2D	RF2001T2D	Offic
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 *1	6.0 *1	6.0 *1	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	°C
Storage temperature	Tstg	-55 to +150	C								

●Electrical characteristics (Ta=25°C)

Part No.	10	VR	VF		IR		trr		Configurate	Package	
T dit 140.	10		Max.	Typ.	IF	Max.	Typ.	Max.	Typ.	Cornigulate	1 donage
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	3A	200V	0.930V	0.870V	3A	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	3A	10μΑ	10nA	25ns	14ns	Cathode common	CPD(D-pack)
RF601T2D	6A	200V	0.930V	0.870V	3A	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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Appendix1-Rev1.0