Fast recovery Rectifier Diodes (Silicon Epitaxial Planar)

RF □ □ 3 series

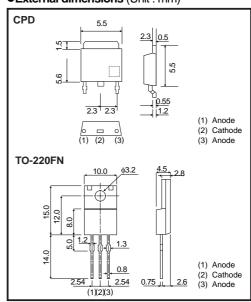
Applications

High frequency rectification

● Features

- 1) Very fast recovery
- 2) Low V_F
- 3) Low switching loss
- 4) Standard package TO-220FN, CPD

●External dimensions (Unit : mm)



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



- Conton tap type cauned common, 2 dan ciciniona									
VR	Ultra low V	F type FRD	Fast recovery type FRD						
	20	0V	200V						
lo 🔪	Dual	Single	Dual	Single					
6A	•	-		-					
10A	•	-		-					
15A	-	-	-	-					
16A	•	-	-	-					
20A	•	_	_	_					
30A	-	-	-	_					

CPD Center tap type cathode common, Dual elements



VR VR	Ultra low V	F type FRD	Fast recovery type FRD			
/	20	0V	200V			
lo 🔪	Dual	Single	Dual	Single		
ЗА	ı	•	1	•		
5A	-	•	ı	•		
6A	•	-	•	-		
10A	-	-	1	-		

●Absolute maximum ratings (Ta=25°C)

Parameter	Svmbol	Limits								
Parameter	Symbol	RF073M2S	RF103L2S	RF303B2S	RF503B2S	RF603B2D	RF603T2D	RF1003T2D	Unit	
Reverse voltage (repetitive peak)	VRM	200	200	200	200	200	200	200	V	
Reverse voltage (DC)	VR	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	Α	
Forward peak surge current (60Hz ·1cyc.)	IFSM	15	20	60	60	60	80	80	Α	
Junction temperature	Tj	150	150	150	150	150	150	150	C	
Storage temperature	Tstg	-55 to +150	C							

●Electrical characteristics (Ta=25°C)

Part No. IO	10	VR	VF		IR		trr		Configurate	Package	
Part No.	10	VIX	Max.	Typ.	IF	Max.	Typ.	Max.	Typ.	Configurate	rackage
RF073M2S	0.7A	200V	0.890V	0.830V	0.7A	10μΑ	1.2μΑ	20ns	9ns	Single	PMDU
RF103L2S	1A	200V	0.920V	0.860V	1A	10μΑ	1.2μΑ	20ns	9ns	Single	PMDS
RF303B2S	3A	200V	0.980V	0.920V	3A	20μΑ	2.0μΑ	20ns	11ns	Single	CPD(D-pack)
RF503B2S	5A	200V	0.980V	0.920V	5A	40μΑ	4.0μΑ	25ns	12ns	Single	CPD(D-pack)
RF603B2D	6A	200V	0.980V	0.920V	3A	20μΑ	2.0μΑ	20ns	11ns	Cathode common	CPD(D-pack)
RF603T2D	6A	200V	0.980V	0.920V	3A	20μΑ	2.0μΑ	20ns	11ns	Cathode common	TO-220FN
RF1003T2D	10A	200V	0.980V	0.920V	5A	40μΑ	4.0μΑ	25ns	12ns	Cathode common	TO-220FN

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