



FAST RECOVERY RECTIFIERS

Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ V_{RWM}	Maximum Forward Voltage		Maximum Reverse Recovery Time	Package
	V_{RWM}	$I_o @ T_L$		I_{FSM}	I_R	I_{FM}	V_{FM}	t_{rr}	
	V	A	°C	A	μA	A	V	ns	

0.2 AMPERE FAST

R2500F	2500	0.2	50	30	5.0	0.2	4.0	500	DO-15
R3000F	3000		50	30	5.0	0.2	5.0	500	
R4000F	4000		55	30	5.0	0.2	6.5	500	
R5000F	5000		55	30	5.0	0.2	6.5	500	

0.5~1.0 AMPERE FAST

R1200F	1200	0.5	50	30	5.0	0.5	2.40	500	DO-41
R1500F	1500		50	30	5.0	0.5	2.40	500	
R1800F	1800		50	30	5.0	0.5	2.40	500	
R2000F	2000		50	30	5.0	0.5	4.00	500	
FR101	50	1.0	55	30	5.0	1.0	1.30	150	
FR102	100		55	30	5.0	1.0	1.30	150	
FR103	200		55	30	5.0	1.0	1.30	150	
FR104	400		55	30	5.0	1.0	1.30	150	
FR105	600		55	30	5.0	1.0	1.30	250	
FR106	800		55	30	5.0	1.0	1.30	500	
FR107	1000		55	30	5.0	1.0	1.30	500	
FR101GP	50		55	30	5.0	1.0	1.30	150	
FR102GP	100		55	30	5.0	1.0	1.30	150	
FR103GP	200		55	30	5.0	1.0	1.30	150	
FR104GP	400		55	30	5.0	1.0	1.30	150	
FR105GP	600		55	30	5.0	1.0	1.30	250	
FR106GP	800		55	30	5.0	1.0	1.30	500	
FR107GP	1000		55	30	5.0	1.0	1.30	500	
1N4933	50		55	30	5.0	1.0	1.30	200	
1N4934	100		55	30	5.0	1.0	1.30	200	
1N4935	200		55	30	5.0	1.0	1.30	200	
1N4936	400	55	30	5.0	1.0	1.30	200		
1N4937	600	55	30	5.0	1.0	1.30	200		
1N4933GP	50	55	30	5.0	1.0	1.30	200		
1N4934GP	100	55	30	5.0	1.0	1.30	200		
1N4935GP	200	55	30	5.0	1.0	1.30	200		
1N4936GP	400	55	30	5.0	1.0	1.30	200		
1N4937GP	600	55	30	5.0	1.0	1.30	200		
1N4942	200	55	25	5.0	1.0	1.30	150		
1N4944	400	55	25	5.0	1.0	1.30	150		
1N4946	600	55	25	5.0	1.0	1.30	250		
1N4947	800	55	25	5.0	1.0	1.30	250		
1N4948	1000	55	25	5.0	1.0	1.30	500		
1N4942GP	200	55	25	5.0	1.0	1.30	150		
1N4944GP	400	55	25	5.0	1.0	1.30	150		
1N4946GP	600	55	25	5.0	1.0	1.30	250		
1N4947GP	800	55	25	5.0	1.0	1.30	250		
1N4948GP	1000	55	25	5.0	1.0	1.30	500		

"GP" suffix signifies a glass passivated die



Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ V_{RWM}	Maximum Forward Voltage		Maximum Reverse Recovery Time	Package
	V_{RWM}	$I_O @ T_L$		I_{FSM}	I_R	I_{FM}	V_{FM}	t_r	
	V	A	°C	A	μA	A	V	ns	

1.0 AMPERE FAST

1F1	50	1.0	55	30	5.0	1.0	1.30	150	R-1
1F2	100		55	30	5.0	1.0	1.30	150	
1F3	200		55	30	5.0	1.0	1.30	150	
1F4	400		55	30	5.0	1.0	1.30	150	
1F5	600		55	30	5.0	1.0	1.30	250	
1F6	800		55	30	5.0	1.0	1.30	500	
1F7	1000		55	30	5.0	1.0	1.30	500	

1.5 ~ 2.0 AMPERE FAST

FR151	50	1.5	55	50	5.0	1.5	1.30	150	DO-15
FR152	100		55	50	5.0	1.5	1.30	150	
FR153	200		55	50	5.0	1.5	1.30	150	
FR154	400		55	50	5.0	1.5	1.30	150	
FR155	600		55	50	5.0	1.5	1.30	250	
FR156	800		55	50	5.0	1.5	1.30	500	
FR157	1000		55	50	5.0	1.5	1.30	500	
FR151GP	50		55	50	5.0	1.5	1.30	150	
FR152GP	100	55	50	5.0	1.5	1.30	150		
FR153GP	200	55	50	5.0	1.5	1.30	150		
FR154GP	400	55	50	5.0	1.5	1.30	150		
FR155GP	600	55	50	5.0	1.5	1.30	250		
FR156GP	800	55	50	5.0	1.5	1.30	500		
FR157GP	1000	55	50	5.0	1.5	1.30	500		
FR201	50	2.0	55	60	5.0	2.0	1.30	150	
FR202	100		55	60	5.0	2.0	1.30	150	
FR203	200		55	60	5.0	2.0	1.30	150	
FR204	400		55	60	5.0	2.0	1.30	150	
FR205	600		55	60	5.0	2.0	1.30	250	
FR206	800		55	60	5.0	2.0	1.30	500	
FR207	1000		55	60	5.0	2.0	1.30	500	
FR201GP	50		55	60	5.0	2.0	1.30	150	
FR202GP	100	55	60	5.0	2.0	1.30	150		
FR203GP	200	55	60	5.0	2.0	1.30	150		
FR204GP	400	55	60	5.0	2.0	1.30	150		
FR205GP	600	55	60	5.0	2.0	1.30	250		
FR206GP	800	55	60	5.0	2.0	1.30	500		
FR207GP	1000	55	60	5.0	2.0	1.30	500		

"GP" suffix signifies a glass passivated die



Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ V _{RWM}	Maximum Forward Voltage		Maximum Reverse Recovery Time	Package
	V _{RWM}	I _O @ T _L		I _{FSM}	I _R	I _{FM}	V _{FM}	t _{rr}	
	V	A	°C	A	μA	A	V	ns	

3.0 ~ 5.0 AMPERE FAST

FR301	50	3.0	55	150	10.0	3.0	1.30	150	DO-201AD
FR302	100		55	150	10.0	3.0	1.30	150	
FR303	200		55	150	10.0	3.0	1.30	150	
FR304	400		55	150	10.0	3.0	1.30	150	
FR305	600		55	150	10.0	3.0	1.30	250	
FR306	800		55	150	10.0	3.0	1.30	500	
FR307	1000		55	150	10.0	3.0	1.30	500	
FR301GP	50		55	150	5.0	3.0	1.30	150	
FR302GP	100		55	150	5.0	3.0	1.30	150	
FR303GP	200		55	150	5.0	3.0	1.30	150	
FR304GP	400		55	150	5.0	3.0	1.30	150	
FR305GP	600		55	150	5.0	3.0	1.30	250	
FR306GP	800		55	150	5.0	3.0	1.30	500	
FR307GP	1000		55	150	5.0	3.0	1.30	500	
FR501	50	5.0	55	200	10	5.0	1.35	150	
FR502	100		55	200	10	5.0	1.35	150	
FR503	200		55	200	10	5.0	1.35	150	
FR504	400		55	200	10	5.0	1.35	150	
FR505	600		55	200	10	5.0	1.35	250	
FR506	800		55	200	10	5.0	1.35	500	
FR507	1000		55	200	10	5.0	1.35	500	

6.0 AMPERE FAST

FR601	50	6.0	55	300	10	6.0	1.30	150	R-6
FR602	100		55	300	10	6.0	1.30	150	
FR603	200		55	300	10	6.0	1.30	150	
FR604	400		55	300	10	6.0	1.30	150	
FR605	600		55	300	10	6.0	1.30	250	
FR606	800		55	300	10	6.0	1.30	500	
FR607	1000		55	300	10	6.0	1.30	500	
FR601GP	50		55	300	10	6.0	1.30	150	
FR602GP	100		55	300	10	6.0	1.30	150	
FR603GP	200		55	300	10	6.0	1.30	150	
FR604GP	400		55	300	10	6.0	1.30	150	
FR605GP	600		55	300	10	6.0	1.30	250	
FR606GP	800		55	300	10	6.0	1.30	500	
FR607GP	1000		55	300	10	6.0	1.30	500	

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Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ V_{RWM}	Maximum Forward Voltage		Maximum Reverse Recovery Time	Package
	V_{RWM}	$I_O @ T_L$		I_{FSM}	I_R	I_{FM}	V_{FM}	t_{rr}	
	V	A	°C	A	μA	A	V	ns	



1.0 AMPERE FAST

FSM11PL	50	1.0	110	30	5.0	1.0	1.3	150	SOD-123FL
FSM 12PL	100		110	30	5.0	1.0	1.3	150	
FSM 13PL	200		110	30	5.0	1.0	1.3	150	
FSM 14PL	400		110	30	5.0	1.0	1.3	150	
FSM 15PL	600		110	30	5.0	1.0	1.3	250	
FSM 16PL	800		110	30	5.0	1.0	1.3	500	



1.0 AMPERE FAST

FS1A	50	1.0	90	30	5.0	1.0	1.30	150	SMA DO-214AC
FS1B	100		90	30	5.0	1.0	1.30	150	
FS1D	200		90	30	5.0	1.0	1.30	150	
FS1G	400		90	30	5.0	1.0	1.30	150	
FS1J	600		90	30	5.0	1.0	1.30	250	
FS1K	800		90	30	5.0	1.0	1.30	500	
FS1M	1000		90	30	5.0	1.0	1.30	500	



1.0 AMPERE FAST

FS1AE	50	1.0	90	30	5.0	1.0	1.30	150	SMAE
FS1BE	100		90	30	5.0	1.0	1.30	150	
FS1DE	200		90	30	5.0	1.0	1.30	150	
FS1GE	400		90	30	5.0	1.0	1.30	150	
FS1JE	600		90	30	5.0	1.0	1.30	250	
FS1KE	800		90	30	5.0	1.0	1.30	500	
FS1ME	1000		90	30	5.0	1.0	1.30	500	



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	V_{RWM}	$I_O @ T_L$		I_{FSM}	I_R	I_{FM}	V_{FM}	t_{rr}	
	V	A	°C	A	μA	A	V	ns	

2.0 AMPERE FAST



FS2A	50	2.0	90	50	5.0	2.0	1.30	150	SMB
FS2B	100		90	50	5.0	2.0	1.30	150	
FS2D	200		90	50	5.0	2.0	1.30	150	
FS2G	400		90	50	5.0	2.0	1.30	150	
FS2J	600		90	50	5.0	2.0	1.30	250	
FS2K	800		90	50	5.0	2.0	1.30	500	
FS2M	1000		90	50	5.0	2.0	1.30	500	

3.0 AMPERE FAST



FR3AB	50	3.0	120	100	10.0	3.0	1.30	150	SMB
FR3BB	100		120	100	10.0	3.0	1.30	150	
FR3DB	200		120	100	10.0	3.0	1.30	150	
FR3GB	400		120	100	10.0	3.0	1.30	150	
FR3JB	600		120	100	10.0	3.0	1.30	250	
FR3KB	800		120	100	10.0	3.0	1.30	500	
FR3MB	1000		120	100	10.0	3.0	1.30	500	

3.0 AMPERE FAST



FR3A	50	3.0	120	100	10.0	3.0	1.30	150	SMC
FR3B	100		120	100	10.0	3.0	1.30	150	
FR3D	200		120	100	10.0	3.0	1.30	150	
FR3G	400		120	100	10.0	3.0	1.30	150	
FR3J	600		120	100	10.0	3.0	1.30	250	
FR3K	800		120	100	10.0	3.0	1.30	500	
FR3M	1000		120	100	10.0	3.0	1.30	500	

25 AMPERE FAST



FRB2504	400	25	100	280	10	25	1.30	250	D2-PACK
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