



## FAST RECOVERY RECTIFIERS

OPERATING/STORAGE TEMPERATURE RANGE: -55°C TO 150°C

MCC Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ $V_{RWM}$ @ 25°C $T_L^*$	Maximum Forward Voltage @ 25°C $T_L^*$		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	

### Through Hole Fast Recovery Rectifiers

R1200F	1200	<b>0.5</b>	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	<b>1.0</b>	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		
RGP10A	50	55	30	5.0	1.0	1.30	150		
RGP10B	100	55	30	5.0	1.0	1.30	150		
RGP10D	200	55	30	5.0	1.0	1.30	150		
RGP10G	400	55	30	5.0	1.0	1.30	150		
RGP10J	600	55	30	5.0	1.0	1.30	250		
RGP10K	800	55	30	5.0	1.0	1.30	500		
RGP10M	1000	55	30	5.0	1.0	1.30	500		
FR1012GP	1200	55	30	5.0	1.0	1.35	300		
FR1014GP	1400	55	30	5.0	1.0	1.35	300		
FR1016GP	1600	55	30	5.0	1.0	1.35	300		
FR1018GP	1800	55	30	5.0	1.0	1.50	500		
FR1020GP	2000	55	30	5.0	1.0	1.50	500		

\* $t_{rr}$  Test Condition:  $I_F = 1.0A$ ,  $V_R = 30V$

"GP" suffix signifies a glass passivated die

RGP Series can be worked in high temperature ---175°C

MCC Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ $V_{RWM}$ @ 25°C $T_L^*$	Maximum Forward Voltage @ 25°C $T_L^*$		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		
1F10	1000	0.5	25	25	5.0	0.5	1.80	300	R-1	
1F12	1200		25	25	5.0	0.5	1.80	300		
1F14	1400		25	25	5.0	0.5	1.80	300		
1F15	1500		25	25	5.0	0.5	1.80	300		
1F16	1600		25	25	5.0	0.5	1.80	300		
1F18	1800		25	25	5.0	0.5	1.80	300		
1F1	50	1.0	55	30	5.0	1.0	1.30	150		
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		
R2500F	2500	0.2	50	30	5.0	0.2	4.00	500		DO-15
R3000F	3000		50	30	5.0	0.2	5.00	500		
FR151	50	1.5	55	50	5.0	1.5	1.30	150		
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		
RGP15A	50		55	50	5.0	1.5	1.30	150		
RGP15B	100		55	50	5.0	1.5	1.30	150		
RGP15D	200		55	50	5.0	1.5	1.30	150		
RGP15G	400	55	50	5.0	1.5	1.30	150			
RGP15J	600	55	50	5.0	1.5	1.30	250			
RGP15K	800	55	50	5.0	1.5	1.30	500			
RGP15M	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		
RGP20A	50		2.0	55	80	5.0	2.0	1.30	150	DO-201AE
RGP20B	100			55	80	5.0	2.0	1.30	150	
RGP20D	200			55	80	5.0	2.0	1.30	150	
RGP20G	400	55		80	5.0	2.0	1.30	150		
RGP20J	600	55		80	5.0	2.0	1.30	250		
RGP20K	800	55		80	5.0	2.0	1.30	500		
RGP20M	1000	55		80	5.0	2.0	1.30	500		

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MCC Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ $V_{RWM}$ @ 25°C $T_L^*$	Maximum Forward Voltage @ 25°C $T_L^*$		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	
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	
RGP30A	50		55	125	5.0	3.0	1.30	150	
RGP30B	100		55	125	5.0	3.0	1.30	150	
RGP30D	200		55	125	5.0	3.0	1.30	150	
RGP30G	400		55	125	5.0	3.0	1.30	150	
RGP30J	600		55	125	5.0	3.0	1.30	250	
RGP30K	800		55	125	5.0	3.0	1.30	500	
RGP30M	1000		55	125	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	
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	
MR750FR	50	6.0	55	300	10	6.0	1.30	150	LEADED BUTTON
MR751FR	100		55	300	10	6.0	1.30	150	
MR752FR	200		55	300	10	6.0	1.30	150	
MR754FR	400		55	300	10	6.0	1.30	150	
MR756FR	600		55	300	10	6.0	1.30	250	
MR758FR	800		55	300	10	6.0	1.30	500	
MR7510FR	1000		55	300	10	6.0	1.30	500	
MR2400FR	50	24	125	300	25	24	1.15	200	TO-220 TYPE BUTTON
MR2401FR	100		125	300	25	24	1.15	200	
MR2402FR	200		125	300	25	24	1.15	200	
MR2404FR	400		125	300	25	24	1.15	200	
MR2406FR	600		125	300	25	24	1.15	250	
MR2408FR	800		125	300	25	24	1.15	500	
MR2410FR	1000		125	300	25	24	1.15	500	

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MCC Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ $V_{RWM}$ @ 25°C $T_L^*$	Maximum Forward Voltage @ 25°C $T_L^*$		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	

### Surface Mount Fast Recovery Rectifiers

DL4933	50	1.0	55	30	5.0	1.0	1.30	150	MELF
DL4934	100		55	30	5.0	1.0	1.30	150	
DL4935	200		55	30	5.0	1.0	1.30	150	
DL4936	400		55	30	5.0	1.0	1.30	150	
DL4937	600		55	30	5.0	1.0	1.30	150	
DLFR106	800		55	30	5.0	1.0	1.30	250	
FS1A	50	1.0	90	30	5.0	1.0	1.30	150	HSMA*
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		
FS2A	50	2.0	90	50	5.0	2.0	1.30	150	HSMA*
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		
FR1A	50	1.0	90	30	5.0	1.0	1.30	150	HSMB*
FR1B	100		90	30	5.0	1.0	1.30	150	
FR1D	200		90	30	5.0	1.0	1.30	150	
FR1G	400		90	30	5.0	1.0	1.30	150	
FR1J	600		90	30	5.0	1.0	1.30	250	
FR1K	800		90	30	5.0	1.0	1.30	500	
FR1M	1000		90	30	5.0	1.0	1.30	500	
FR1Q	1200		55	30	5.0	1.0	1.50	300	
FR1V	1400		55	30	5.0	1.0	1.50	300	
FR1Y	1600		55	30	5.0	1.0	1.50	300	
FR1Z	1800		55	30	5.0	1.0	1.70	500	
FR1ZZ	2000		55	30	5.0	1.0	1.70	500	
FR2A	50	2.0	90	50	5.0	2.0	1.30	150	HSMB*
FR2B	100		90	50	5.0	2.0	1.30	150	
FR2D	200		90	50	5.0	2.0	1.30	150	
FR2G	400		90	50	5.0	2.0	1.30	150	
FR2J	600		90	50	5.0	2.0	1.30	250	
FR2K	800		90	50	5.0	2.0	1.30	500	
FR2M	1000	90	50	5.0	2.0	1.30	500		
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		
FR6A	50	6.0	55	300	10.0	6.0	1.30	150	HSMC
FR6B	100		55	300	10.0	6.0	1.30	150	
FR6D	200		55	300	10.0	6.0	1.30	150	
FR6G	400		55	300	10.0	6.0	1.30	150	
FR6J	600		55	300	10.0	6.0	1.30	250	
FR6K	800		55	300	10.0	6.0	1.30	500	
FR6M	1000	55	300	10.0	6.0	1.30	500		

\*Note: Also can be made for Lead Frame Package



MCC Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ $V_{RWM}$ @ 25°C $T_L^*$	Maximum Forward Voltage @ 25°C $T_L^*$		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	
FR8A	50	<b>8.0</b>	55	300	10	8.0	1.30	150	HSMC
FR8B	100		55	300	10	8.0	1.30	150	
FR8D	200		55	300	10	8.0	1.30	150	
FR8G	400		55	300	10	8.0	1.30	150	
FR8J	600		55	300	10	8.0	1.30	250	
FR8K	800		55	300	10	8.0	1.30	500	
FR8M	1000		55	300	10	8.0	1.30	500	
FR10A	50	<b>10</b>	55	300	10	10	1.30	150	
FR10B	100		55	300	10	10	1.30	150	
FR10D	200		55	300	10	10	1.30	150	
FR10G	400		55	300	10	10	1.30	150	
FR10J	600		55	300	10	10	1.30	250	
FR10K	800		55	300	10	10	1.30	500	
FR10M	1000		55	300	10	10	1.30	500	