

# FAST RECOVERY RECTIFIERS



OPERATING AND STORAGE TEMPERATURE - 65°C to +150°C

SURGE PART NUMBER	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25°C T <sub>A</sub>	Maximum Forward Voltage @ 25°C T <sub>A</sub>		Maximum Reverse Recovery Time
	PRV	I <sub>o</sub> @ T <sub>A</sub>		I <sub>FM</sub> (Surge)	I <sub>R</sub>	I <sub>FM</sub>	V <sub>FM</sub>	T <sub>rr</sub>
	V <sub>PK</sub>	A <sub>AV</sub>	°C	A <sub>PK</sub>	μA <sub>dc</sub>	A <sub>PK</sub>	V <sub>PK</sub>	nS

## 1.5 AMPERES/2.0 AMPERES-FAST RECOVERY/DO-15 (CASE 6)

FR151	50	1.5	75	60	5.0	1.5	1.3	150
FR152	100	1.5	75	60	5.0	1.5	1.3	150
FR153	200	1.5	75	60	5.0	1.5	1.3	150
FR154	400	1.5	75	60	5.0	1.5	1.3	150
FR155	600	1.5	75	60	5.0	1.5	1.3	250
FR156	800	1.5	75	60	5.0	1.5	1.3	500
FR157	1000	1.5	75	60	5.0	1.5	1.3	500
FR201	50	2.0	75	70	5.0	2.0	1.3	150
FR202	100	2.0	75	70	5.0	2.0	1.3	150
FR203	200	2.0	75	70	5.0	2.0	1.3	150
FR204	400	2.0	75	70	5.0	2.0	1.3	150
FR205	600	2.0	75	70	5.0	2.0	1.3	250
FR206	800	2.0	75	70	5.0	2.0	1.3	500
FR207	1000	2.0	75	70	5.0	2.0	1.3	500

## 3.0 AMPERES-FAST RECOVERY/DO-201AD (CASE 8)

FR301	50	3.0	75	200	10	3.0	1.3	150
FR302	100	3.0	75	200	10	3.0	1.3	150
FR303	200	3.0	75	200	10	3.0	1.3	150
FR304	400	3.0	75	200	10	3.0	1.3	150
FR305	600	3.0	75	200	10	3.0	1.3	250
FR306	800	3.0	75	200	10	3.0	1.3	500
FR307	1000	3.0	75	200	10	3.0	1.3	500

## 6.0 AMPERES-FAST RECOVERY/R-6 (CASE 9)

FR601	50	6.0	75	300	10	6.0	1.3	150
FR602	100	6.0	75	300	10	6.0	1.3	150
FR603	200	6.0	75	300	10	6.0	1.3	150
FR604	400	6.0	75	300	10	6.0	1.3	150
FR605	600	6.0	75	300	10	6.0	1.3	250
FR606	800	6.0	75	300	10	6.0	1.3	500
FR607	1000	6.0	75	300	10	6.0	1.3	500

## 8 AMPERES-FAST RECOVERY/TO-220A (CASE 10)

FR801	50	8.0	75	150	10	8	1.3	150
FR802	100	8.0	75	150	10	8	1.3	150
FR803	150	8.0	75	150	10	8	1.3	150
FR804	200	8.0	75	150	10	8	1.3	150
FR805	300	8.0	75	150	10	8	1.3	150
FR806	400	8.0	75	150	10	8	1.3	150
FR807	500	8.0	75	150	10	8	1.3	250
FR808	600	8.0	75	150	10	8	1.3	250

## 12 AMPERES-FAST RECOVERY/TO-220 (CASE 11)

FR121	50	12	75	120	10	6	1.3	150
FR122	100	12	75	120	10	6	1.3	150
FR123	150	12	75	120	10	6	1.3	150
FR124	200	12	75	120	10	6	1.3	250
FR125	300	12	75	120	10	6	1.3	250
FR126	400	12	75	120	10	6	1.3	250
FR127	500	12	75	120	10	6	1.3	250
FR128	600	12	75	120	10	6	1.3	250

## 16 AMPERES-FAST RECOVERY/TO-220 (CASE 11)

FR161	50	16	75	250	10	8	1.3	150
FR162	100	16	75	250	10	8	1.3	150
FR163	150	16	75	250	10	8	1.3	150
FR164	200	16	75	250	10	8	1.3	150
FR165	300	16	75	250	10	8	1.3	150
FR166	400	16	75	250	10	8	1.3	150
FR167	500	16	75	250	10	8	1.3	250
FR168	600	16	75	250	10	8	1.3	250

NOTES: Reverse Recovery Time Conditions (I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=0.25A)

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