

# FAST RECOVERY RECTIFIERS

PLASTIC MATERIAL USED CARRIES UL 94V-0  
OPERATING AND STORAGE TEMPERATURE -65°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ $P_{RV}$ @ 25°C $T_A$	Maximum Forward Voltage @ 25°C $T_A$		Maximum Reverse Recovery Time
	$P_{RV}$	$I_O @ T_A$		$I_{FM}$ ( Surge )	$I_R$	$I_{FM}$	$V_{FM}$	$T_{RR}$
	$V_{PK}$	$A_{AV}$	°C	$A_{PK}$	$\mu A_{dc}$	$A_{PK}$	$V_{PK}$	nS

## 1.0 AMPERE-FAST RECOVERY/R-1 (CASE 5)

1F1	50	1.0	25	25	5.0	1.0	1.3	150
1F2	100	1.0	25	25	5.0	1.0	1.3	150
1F3	200	1.0	25	25	5.0	1.0	1.3	150
1F4	400	1.0	25	25	5.0	1.0	1.3	150
1F5	600	1.0	25	25	5.0	1.0	1.3	150
1F6	800	1.0	25	25	5.0	1.0	1.3	150
1F7	1000	1.0	25	25	5.0	1.0	1.3	150

## 1.0 AMPERE-FAST RECOVERY/A-405 (CASE 6)

RL101F	50	1.0	55	30	5.0	1.0	1.3	150
RL102F	100	1.0	55	30	5.0	1.0	1.3	150
RL103F	200	1.0	55	30	5.0	1.0	1.3	150
RL104F	400	1.0	55	30	5.0	1.0	1.3	150
RL105F	600	1.0	55	30	5.0	1.0	1.3	250
RL106F	800	1.0	55	30	5.0	1.0	1.3	500
RL107F	1000	1.0	55	30	5.0	1.0	1.3	500

## 1.0 AMPERE-FAST RECOVERY/DO-41 (CASE 7)

FR101	50	1.0	75	30	5.0	1.0	1.3	150
FR102	100	1.0	75	30	5.0	1.0	1.3	150
FR103	200	1.0	75	30	5.0	1.0	1.3	150
FR104	400	1.0	75	30	5.0	1.0	1.3	150
FR105	600	1.0	75	30	5.0	1.0	1.3	250
FR105P	600	1.0	75	30	5.0	1.0	1.3	150
FR106	800	1.0	75	30	5.0	1.0	1.3	500
FR107	1000	1.0	75	30	5.0	1.0	1.3	500
FR107P	1000	1.0	75	30	5.0	1.0	1.3	250

## 1.0 AMPERE-FAST RECOVERY/DO-41 (CASE 7)

1N4933	50	1.0	75	30	5.0	1.0	1.2	*200
1N4934	100	1.0	75	30	5.0	1.0	1.2	*200
1N4935	200	1.0	75	30	5.0	1.0	1.2	*200
1N4936	400	1.0	75	30	5.0	1.0	1.2	*200
1N4937	600	1.0	75	30	5.0	1.0	1.2	*200
1N4942	200	1.0	75	30	5.0	1.0	1.3	*150
1N4944	400	1.0	75	30	5.0	1.0	1.3	*150
1N4946	600	1.0	75	30	5.0	1.0	1.3	*250
1N4947	800	1.0	75	30	5.0	1.0	1.3	*250
1N4948	1000	1.0	75	30	5.0	1.0	1.3	*500

NOTE : \* \* \*  $T_{rr}$  TEST @  $I_F = 1.0A$  ,  $V_R = 30V$

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	P <sub>RV</sub>	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>	uA <sub>dc</sub>	A <sub>PK</sub>	V <sub>PK</sub>	nS



## 1.5 AMPERE/2.0 AMPERES-FAST RECOVERY/DO-15 (CASE 8)

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
FR155P	600	1.5	75	60	5.0	1.5	1.3	150
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
FR157P	1000	1.5	75	60	5.0	1.5	1.3	250
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
FR205P	600	2.0	75	70	5.0	2.0	1.3	150
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
FR207P	1000	2.0	75	70	5.0	2.0	1.3	250



## 2.5 AMPERE-FAST RECOVERY/R-3 (CASE 9)

FR251	50	2.5	75	150	5.0	2.5	1.3	150
FR252	100	2.5	75	150	5.0	2.5	1.3	150
FR253	200	2.5	75	150	5.0	2.5	1.3	150
FR254	400	2.5	75	150	5.0	2.5	1.3	150
FR255	600	2.5	75	150	5.0	2.5	1.3	250
FR255P	600	2.5	75	150	5.0	2.5	1.3	150
FR256	800	2.5	75	150	5.0	2.5	1.3	500
FR257	1000	2.5	75	150	5.0	2.5	1.3	500
FR257P	1000	2.5	75	150	5.0	2.5	1.3	250



## 3.0 AMPERE-FAST RECOVERY/DO-201AD (CASE 11)

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
FR305P	600	3.0	75	200	10	3.0	1.3	150
FR306	800	3.0	75	200	10	3.0	1.3	500
FR307	1000	3.0	75	200	10	3.0	1.3	500
FR307P	1000	3.0	75	200	10	3.0	1.3	250

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	P <sub>RV</sub>	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>	uA <sub>dc</sub>	A <sub>PK</sub>	V <sub>PK</sub>	nS



## 3.0 AMPERE-FAST RECOVERY/DO-201AD (CASE 11)

RL850	50	3.0	90	100	10	3.0	1.3	*200
RL851	100	3.0	90	100	10	3.0	1.3	*200
RL852	200	3.0	90	100	10	3.0	1.3	*200
RL854	400	3.0	90	100	10	3.0	1.3	*200
RL856	600	3.0	90	100	10	3.0	1.3	*200

NOTE : " \* " T<sub>rr</sub> TEST @ I<sub>F</sub> = 1.0A , V<sub>R</sub> = 30V



## 5.0 AMPERE-FAST RECOVERY/R-6 (CASE 12)

RL820	50	5.0	55	300	25	5.0	1.3	*200
RL821	100	5.0	55	300	25	5.0	1.3	*200
RL822	200	5.0	55	300	25	5.0	1.3	*200
RL824	400	5.0	55	300	25	5.0	1.3	*200
RL826	600	5.0	55	300	25	5.0	1.3	*200

NOTE : " \* " T<sub>rr</sub> TEST @ I<sub>F</sub> = 1.0A , V<sub>R</sub> = 30V



## 6.0 AMPERE-FAST RECOVERY/R-6 (CASE 12)

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



## 8.0 AMPERE-FAST RECOVERY/TO-220A (CASE 13)

FR801	50	8.0	*75	200	10	8.0	1.3	150
FR802	100	8.0	*75	200	10	8.0	1.3	150
FR803	200	8.0	*75	200	10	8.0	1.3	150
FR804	400	8.0	*75	200	10	8.0	1.3	150
FR805	600	8.0	*75	200	10	8.0	1.3	250
FR806	800	8.0	*75	200	10	8.0	1.3	500

NOTE : 1. Suffix " R " for Reverse Polarity.

2. " \* " Case Temperature Measured At Metal Tap.