

TYPE NO	CONSTRUCTION	PACKAGE & PINOUT	V <sub>DS</sub> MAX	I <sub>D</sub> MAX	T <sub>J</sub> MAX	P <sub>tot</sub> MAX	V <sub>GS(OFF)</sub> or V <sub>GS(TH)</sub>	I <sub>loss</sub> or I <sub>D(ON)</sub>	G <sub>FS</sub>	R <sub>DSON</sub> MAX	C <sub>ISS</sub> MAX	C <sub>RSS</sub> MAX	USE	MNF	SUBSTITUTE
IRF630R	NME	TO220 Dd	200V	9A	150C	75WC	2/4V	250µA	35mΩ	0R4	600PtP	80PtP	IHS	HRS	-
IRF631	NME	TO220 Dd	150V	9A	150C	75WC	2/4V	250µA	35mΩ	6R4	800P	150P	RHH	IRC	ZVN1214L MTP8N20
IRF631R	NME	TO220 Dd	150V	9A	150C	75WC	2/4V	250µA	35mΩ	0R4	600PtP	80PtP	IHS	HRS	-
IRF632	NME	TO220 Dd	200V	8A	150C	75WC	2/4V	250µA	35mΩ	0R6	800P	150P	RHH	IRC	ZVN1220L MTP8M20
IRF632R	NME	TO220 Dd	200V	8A	150C	75WC	2/4V	250µA	35mΩ	0R6	600PtP	80PtP	IHS	HRS	-
IRF633	NME	TO220 Dd	150V	8A	150C	75WC	2/4V	-	35mΩ	0R6	800P	150P	RHH	IRC	ZVN1214L MTP8N20
IRF633R	NME	TO220 Dd	150V	8A	150C	75WC	2/4V	250µA	35mΩ	0R6	600PtP	80PtP	IHS	HRS	-
IRF634	NME	TO220 Dd	250V	8.1A	150C	75WC	2/4V	250µA <sub>mx</sub>	2.9S <sub>mn</sub>	0R45	600PtP	52PtP	IHS	IRC	-
IRF635	NME	TO220 Dd	250V	6.5A	150C	75WC	2/4V	250µA <sub>mx</sub>	2.9S <sub>mn</sub>	0R68	600PtP	52PtP	IHS	IRC	-
IRF636	NME	TO220 Dd	275V	8.1A	150C	75WC	2/4V	250µA	2.9S <sub>mn</sub>	0R45	600PtP	52PtP	IHS	IRC	-
IRF637	NME	TO220 Dd	275V	6.5A	150C	75WC	2/4V	250µA	2.9S <sub>mn</sub>	0R68	600PtP	52PtP	IHS	HRS	-
IRF640	NME	TO220 Dd	200V	18A	150C	125WC	2/4V	-	6S <sub>mn</sub>	0R18	1N6	300P	RHH	IRC	VN2320N5 MTP20N20E
IRF640FI	NME	ISO220 D	200V	10A	150C	40WC	2/4V	250µA	6.7S <sub>mn</sub>	0R18	2N3	150P	IMS	SGS	-
IRF640R	NME	TO220 Dd	200V	18A	150C	125WC	2/4V	250µA	6.7S <sub>mn</sub>	0R18	1N25tp	100PtP	IHS	HRS	-
IRF641	NME	TO220 Dd	150V	18A	150C	125WC	2/4V	-	6S <sub>mn</sub>	0R18	1N6	300P	RHH	IRC	VN2315N5 MTP20N20E
IRF641FI	NME	ISO220 D	150V	10A	150C	40WC	2/4V	250µA	6.7S <sub>mn</sub>	0R18	2N3	150P	IMS	SGS	-
IRF641R	NME	TO220 Dd	150V	18A	150C	125WC	2/4V	250µA	6.7S <sub>mn</sub>	0R18	1N25tp	100PtP	IHS	HRS	-
IRF642	NME	TO220 Dd	200V	16A	150C	125WC	2/4V	-	6S <sub>mn</sub>	0R22	1N6	300P	RHH	IRC	VN2320N5 MTP20N20E
IRF642R	NME	TO220 Dd	200V	16A	150C	125WC	2/4V	250µA	6.7S <sub>mn</sub>	0R22	1N25tp	100PtP	IHS	HRS	-
IRF643	NME	TO220 Dd	150V	16A	150C	125WC	2/4V	-	6S <sub>mn</sub>	0R22	1N6	300P	RHH	IRC	VN2315N5 MTP20N20E
IRF643R	NME	TO220 Dd	150V	16A	150C	125WC	2/4V	250µA	6.7S <sub>mn</sub>	0R22	1N25tp	100PtP	IHS	HRS	-
IRF644	NME	TO220 Dd	250V	14A	150C	125WC	2/4V	250µA <sub>mx</sub>	6.7S <sub>mn</sub>	0R28	1N3tp	69PtP	IHS	IRC	-
IRF645	NME	TO220 Dd	250V	13A	150C	125WC	2/4V	250µA <sub>mx</sub>	6.7S <sub>mn</sub>	0R34	1N3tp	69PtP	IHS	IRC	-
IRF646	NME	TO220 Dd	275V	14A	150C	125WC	2/4V	250µA <sub>mx</sub>	6.7S <sub>mn</sub>	0R28	1N3tp	69PtP	IHS	IRC	-
IRF647	NME	TO220 Dd	250V	13A	150C	125WC	2/4V	250µA <sub>mx</sub>	6.7S <sub>mn</sub>	0R34	1N3tp	69PtP	IHS	HRS	-
IRF710	NME	TO220 Dd	400V	1.5A	150C	20WC	2/4V	-	500mS <sub>mn</sub>	3R6	150P	15P	RHH	IRC	ZVN0340L MTP4N40E
IRF710R	NME	TO220 Dd	400V	2A	150C	36WC	2/4V	250µA	1S <sub>mn</sub>	3R6	135PtP	80PtP	IMS	HRS	-
IRF711	NME	TO220 Dd	350V	1.5A	150C	20WC	2/4V	-	500mS <sub>mn</sub>	3R6	150P	15P	RHH	IRC	ZVN0335L MTP4N40E
IRF711R	NME	TO220 Dd	350V	2A	150C	36WC	2/4V	250µA	1S <sub>mn</sub>	3R6	135PtP	80PtP	IMS	HRS	-
IRF712	NME	TO220 Dd	400V	1.3A	150C	20WC	2/4V	-	500mS <sub>mn</sub>	5R0	150P	15P	RHH	IRC	ZVN0340L MTP4N40E
IRF712R	NME	TO220 Dd	400V	1.7A	150C	36WC	2/4V	250µA	1S <sub>mn</sub>	5R0	135PtP	80PtP	IMS	HRS	-
IRF713	NME	TO220 Dd	350V	1.3A	150C	20WC	2/4V	-	500mS <sub>mn</sub>	5R0	150P	15P	RHH	IRC	ZVN0335L MTP4N40E
IRF713R	NME	TO220 Dd	350V	1.7A	150C	36WC	2/4V	250µA	1S <sub>mn</sub>	5R0	135PtP	80PtP	IMS	HRS	-
IRF720	NME	TO220 Dd	400V	3A	150C	40WC	2/4V	-	1S <sub>mn</sub>	1R8	600P	40P	RHH	IRC	ZVN0340L MTP4N40E
IRF720R	NME	TO220 Dd	400V	3.3A	150C	50WC	2/4V	250µA	3.3S <sub>mn</sub>	1R8	360PtP	20PtP	IMS	HRS	-
IRF721	NME	TO220 Dd	350V	3A	150C	40WC	2/4V	-	1S <sub>mn</sub>	1R8	600P	40P	RHH	IRC	ZVN0335L MTP4N40E
IRF721R	NME	TO220 Dd	350V	3.3A	150C	50WC	2/4V	250µA	3.3S <sub>mn</sub>	1R8	360PtP	20PtP	IMS	HRS	-
IRF722	NME	TO220 Dd	400V	2.5A	150C	40WC	2/4V	-	1S <sub>mn</sub>	2R5	600P	40P	RHH	IRC	ZVN0340L MTP4N40E
IRF722R	NME	TO220 Dd	400V	2.8A	150C	50WC	2/4V	250µA	3.3S <sub>mn</sub>	2R5	360PtP	20PtP	IMS	HRS	-
IRF723	NME	TO220 Dd	350V	2.5A	150C	40WC	2/4V	-	1S <sub>mn</sub>	2R5	600P	40P	RHH	IRC	ZVN0335L MTP4N40E
IRF723R	NME	TO220 Dd	350V	3.3A	150C	50WC	2/4V	250µA	3.3S <sub>mn</sub>	2R5	360PtP	20PtP	IMS	HRS	-
IRF730	NME	TO220 Dd	400V	5.5A	150C	75WC	2/4V	-	3S <sub>mn</sub>	1R0	800P	80P	RHH	IRC	ZVN0340L MTP5N40E
IRF730FI	NME	ISO220 D	400V	3.5A	150C	35WC	2/4V	250µA	2.9S <sub>mn</sub>	1R0	800P	60P	IMS	SGS	-
IRF730R	NME	TO220 Dd	400V	5.5A	150C	75WC	2/4V	250µA	2.9S <sub>mn</sub>	1R0	600PtP	40PtP	IHS	HRS	-
IRF731	NME	TO220 Dd	350V	5.5A	150C	75WC	2/4V	-	3S <sub>mn</sub>	1R0	800P	80P	RHH	IRC	ZVN0335L MTP5N40E
IRF731R	NME	TO220 Dd	350V	5.5A	150C	75WC	2/4V	250µA	2.9S <sub>mn</sub>	1R0	600PtP	40PtP	IHS	HRS	-
IRF732	NME	TO220 Dd	400V	4.5A	150C	75WC	2/4V	-	3S <sub>mn</sub>	1R5	800P	80P	RHH	IRC	ZVN0340L MTP5N40E
IRF732R	NME	TO220 Dd	400V	4.5A	150C	75WC	2/4V	250µA	2.9S <sub>mn</sub>	1R5	600PtP	40PtP	IMS	HRS	-
IRF733	NME	TO220 Dd	350V	4.5A	150C	75WC	2/4V	-	3S <sub>mn</sub>	1R5	800P	80P	RHH	IRC	ZVN0335L MTP5N40E
IRF733R	NME	TO220 Dd	350V	4.5A	150C	75WC	2/4V	250µA	2.9S <sub>mn</sub>	1R5	600PtP	40PtP	IMS	HRS	-
IRF740	NME	TO220 Dd	400V	10A	150C	125WC	2/4V	-	4S <sub>mn</sub>	0R55	1N6	150P	RHH	IRC	VN2340N5 MTP10E40E
IRF740FI	NME	ISO220 D	400V	5.5A	150C	40WC	2/4V	-	4S <sub>mn</sub>	0R55	1N45	120P	IHS	SGS	-
IRF740R	NME	TO220 Dd	400V	10A	150C	125WC	2/4V	250µA	5.8S <sub>mn</sub>	0R55	1N25tp	80PtP	IHS	HRS	-
IRF741	NME	TO220 Dd	350V	10A	150C	125WC	2/4V	-	4S <sub>mn</sub>	0R55	1N6	150P	RHH	IRC	VN2335N5 MTP10N40E
IRF741R	NME	TO220 Dd	350V	10A	150C	125WC	2/4V	250µA	5.8S <sub>mn</sub>	0R55	1N25tp	80PtP	IHS	HRS	-
IRF742	NME	TO220 Dd	400V	8A	150C	125WC	2/4V	-	4S <sub>mn</sub>	0R8	1N6	150P	RHH	IRC	VN2340N5 MTP10N40E
IRF742R	NME	TO220 Dd	400V	8A	150C	125WC	2/4V	250µA	5.8S <sub>mn</sub>	0R8	1N25tp	80PtP	IHS	HRS	-
IRF743	NME	TO220 Dd	350V	8A	150C	125WC	2/4V	-	4S <sub>mn</sub>	0R8	1N6	150P	RHH	IRC	VN2335N5 MTP10N40E
IRF743R	NME	TO220 Dd	350V	8A	150C	125WC	2/4V	250µA	5.8S <sub>mn</sub>	0R8	1N25tp	80PtP	IHS	HRS	-
IRF820	NME	TO220 Dd	500V	2.5A	150C	40WC	2/4V	-	1S <sub>mn</sub>	3R0	400P	40P	RHH	IRC	ZVN0350L MTP3N50
IRF820FI	NME	ISO220 D	500V	2.2A	150C	35WC	2/4V	250µA	800mS <sub>mn</sub>	3R0	500P	50P	IMS	SGS	-
IRF820R	NME	TO220 Dd	500V	2.5A	150C	50WC	2/4V	250µA	1.5S <sub>mn</sub>	3R0	360PtP	10PtP	IMS	HRS	-
IRF821	NME	TO220 Dd	450V	2.5A	150C	40WC	2/4V	-	1S <sub>mn</sub>	3R0	400P	40P	RHH	IRC	ZVN0345L MTP3N50
IRF821FI	NME	ISO220 D	450V	2.2A	150C	35WC	2/4V	250µA	800mS <sub>mn</sub>	3R0	500P	50P	IMS	SGS	-
IRF821R	NME	TO220 Dd	450V	2.5A	150C	50WC	2/4V	250µA	1.5S <sub>mn</sub>	3R0	360PtP	10PtP	IMS	HRS	-
IRF822	NME	TO220 Dd	500V	2A	150C	40WC	2/4V	-	1S <sub>mn</sub>	4R0	400P	40P	RHH	IRC	ZVN0350L MTP3N50
IRF822FI	NME	ISO220 D	500V	1.9A	150C	35WC	2/4V	250µA	800mS <sub>mn</sub>	3R0	500P	50P	IMS	SGS	-
IRF822R	NME	TO220 Dd	500V	2A	150C	50WC	2/4V	250µA	1.5S <sub>mn</sub>	4R0	360PtP	10PtP	IMS	HRS	-
IRF823	NME	TO220 Dd	450V	2A	150C	40WC	2/4V	-	1S <sub>mn</sub>	4R0	400P	40P	RHH	IRC	ZVN0345L MTP3N50
IRF823R	NME	TO220 Dd	450V	2A	150C	50WC	2/4V	250µA	1.5S <sub>mn</sub>	4R0	360PtP	10PtP	IMS	HRS	-
IRF830	NME	TO220 Dd	500V	4.5A	150C	75WC	2/4V	-	2500mS <sub>mn</sub>	1R5	800P	60P	RHH	IRC	ZVN0350L MTP3N50
IRF830FI	NME	ISO220 D	500V	3A	150C	35WC	2/4V	250µA	2.7S <sub>mn</sub>	1R5	800P	55P	IMS	SGS	-
IRF830R	NME	TO220 Dd	500V	4.5A	150C	75WC	2/4V	250µA	2.7S <sub>mn</sub>	1R5	600PtP	20PtP	IMS	HRS	-
IRF831	NME	TO220 Dd	450V	4.5A	150C	75WC	2/4V	-	2500mS <sub>mn</sub>	1R5	800P	60P	RHH	IRC	ZVN0345L MTP3N50
IRF831FI	NME	ISO220 D	450V	3A	150C	35WC	2/4V	250µA	2.7S <sub>mn</sub>	1R5	800P	55P	IMS	SGS	-