

TYPE NO	CONSTRUCTION	PACKAGE & PINOUT	V _{DS}		T _J	P _{TOT}	V _{GS(OFF)} or V _{GS(TH)}	I _{DSS} OF I _{D(OFF)}	G _{FS}	R _{DS(ON)} MAX	C _{ISS} MAX	C _{RSS} MAX	USE	MNF	SUBSTITUTE	
			MAX	MAX												
IRF442	NME	TO3 C	500V	7A	150C	125WC	2/4V	-	45mn	1R1	1N6	150P	RHH	IRC	VN2350N1	MTM7N50
IRF442R	NME	TO3 C	500V	7A	150C	125WC	2/4V	250µA	4.95mn	1R1	1N25tp	85Ptp	IHS	HRS	-	-
IRF443	NME	TO3 C	450V	7A	150C	125WC	2/4V	-	45mn	1R1	1N6	150P	RHH	IRC	VN2345N1	MTM7N50
IRF443R	NME	TO3 C	450V	7A	150C	125WC	2/4V	250µA	4.95mn	1R1	1N25tp	85Ptp	IHS	HRS	-	-
IRF448	NME	TO3 C	500V	9.6A	175C	130WC	2/4V	250µA	6.35mn	0R6	1N8tp	45Ptp	IHS	IRC	-	-
IRF449	NME	TO3 C	500V	8.6A	175C	130WC	2/4V	250µA	6.35mn	0R75	1N8tp	45Ptp	IHS	IRC	-	-
IRF450	NME	TO3 C	500V	13A	150C	150WC	2/4V	-	65mn	0R4	3N0	200P	RHH	IRC	VN0450N1	MTM13N50E
IRF450R	NME	TO3 C	500V	13A	150C	125WC	2/4V	250µA	65mn	0R4	1N8tp	100Ptp	IHS	HRS	-	-
IRF451	NME	TO3 C	450V	13A	150C	150WC	2/4V	-	65mn	0R4	3N0	200P	RHH	IRC	VN0445N1	MTM13N50E
IRF451R	NME	TO3 C	450V	13A	150C	125WC	2/4V	250µA	65mn	0R4	1N8tp	100Ptp	IHS	HRS	-	-
IRF452	NME	TO3 C	500V	12A	150C	150WC	2/4V	-	65mn	0R5	3N0	200P	RHH	IRC	VN0450N1	MTM13N50E
IRF452R	NME	TO3 C	500V	11A	150C	125WC	2/4V	250µA	65mn	0R5	1N8tp	100Ptp	IHS	HRS	-	-
IRF453	NME	TO3 C	450V	12A	150C	150WC	2/4V	-	65mn	0R5	3N0	200P	RHH	IRC	VN0445N1	MTM13N50E
IRF453R	NME	TO3 C	450V	11A	150C	125WC	2/4V	250µA	65mn	0R5	1N8tp	100Ptp	IHS	HRS	-	-
IRF460	NME	TO3 C	500V	21A	175C	300WC	2/4V	250µA	135mn	0R27	4N1tp	84Ptp	IHS	IRC	SML5025AN	-
IRF462	NME	TO3 C	500V	19A	175C	300WC	2/4V	250µA	135mn	0R35	4N1tp	84Ptp	IHS	IRC	SML5030AN	-
IRF510	NME	TO220 Dd	100V	4A	150C	20WC	2/4V	-	15mn	0R6	150P	25P	RHG	IRC	ZVN1110L	MTP6N10
IRF510R	NME	TO220 Dd	100V	5.6A	175C	43WC	2/4V	250µA	1.35mn	0R54	135Ptp	20Ptp	IHS	HRS	-	-
IRF511	NME	TO220 Dd	60V	4A	150C	20WC	2/4V	-	15mn	0R6	150P	25P	RHG	IRC	ZVN1106L	MTP6N10
IRF511R	NME	TO220 Dd	80V	5.6A	175C	43WC	2/4V	250µA	1.35mn	0R54	135Ptp	20Ptp	IHS	HRS	-	-
IRF512	NME	TO220 Dd	100V	3.5A	150C	20WC	2/4V	-	15mn	0R8	150P	25P	RHG	IRC	ZVN1110L	MTP6N10
IRF512R	NME	TO220 Dd	100V	4.9A	175C	43WC	2/4V	250µA	1.35mn	0R74	135Ptp	20Ptp	IMS	HRS	-	-
IRF513	NME	TO220 Dd	60V	3.5A	150C	20WC	2/4V	-	15mn	0R8	150P	25P	RHG	IRC	ZVN1106L	MTP6N10
IRF513R	NME	TO220 Dd	80V	4.9A	175C	43WC	2/4V	250µA	1.35mn	0R74	135Ptp	20Ptp	IMS	HRS	-	-
IRF520	NME	TO220 Dd	100V	8A	150C	40WC	2/4V	-	1500mSmm	0R3	600P	100P	RHG	IRC	ZVN1110L	MTP10N10E
IRF520F	NME	ISO220 D	100V	7A	150C	30WC	2/4V	250µA	2.75mn	0R27	600P	100P	IHS	SGS	-	-
IRF520R	NME	TO220 Dd	100V	9.2A	175C	60WC	2/4V	250µA	2.75mn	0R27	350Ptp	25Ptp	IHS	HRS	-	-
IRF521	NME	TO220 Dd	60V	8A	150C	40WC	2/4V	-	1500mSmm	0R3	600P	100P	RHG	IRC	ZVN1106L	MTP10N10E
IRF521R	NME	TO220 Dd	80V	9.2A	175C	60WC	2/4V	250µA	2.75mn	0R27	350Ptp	25Ptp	IHS	HRS	-	-
IRF522	NME	TO220 Dd	100V	7A	150C	40WC	2/4V	-	1500mSmm	0R4	600P	100P	RHG	IRC	ZVN1110L	MTP10N10E
IRF523	NME	TO220 Dd	100V	8A	175C	60WC	2/4V	250µA	2.75mn	0R36	350Ptp	25Ptp	IHS	HRS	-	-
IRF523R	NME	TO220 Dd	80V	7A	150C	40WC	2/4V	-	1500mSmm	0R4	600P	100P	RHG	IRC	ZVN1106L	MTP10N10E
IRF530	NME	TO220 Dd	100V	14A	150C	75WC	2/4V	-	45mn	0R18	800P	150P	RHG	IRC	ZVN1210L	MTP12N10E
IRF530F	NME	ISO220 D	100V	10A	150C	35WC	2/4V	250µA	55mn	0R32	1N1	100P	IHS	SGS	-	-
IRF530R	NME	TO220 Dd	100V	14A	175C	79WC	2/4V	250µA	5.15mn	0R18	600Ptp	50Ptp	IHS	HRS	-	-
IRF531	NME	TO220 Dd	60V	14A	150C	75WC	2/4V	-	45mn	0R18	800P	150P	RHG	IRC	ZVN1206L	MTP12N10E
IRF531R	NME	TO220 Dd	80V	14A	175C	79WC	2/4V	250µA	5.15mn	0R18	600Ptp	50Ptp	IHS	HRS	-	-
IRF532	NME	TO220 Dd	100V	12A	150C	75WC	2/4V	-	45mn	0R25	800P	150P	RHG	IRC	ZVN1210L	MTP12N10E
IRF532R	NME	TO220 Dd	100V	12A	175C	79WC	2/4V	250µA	5.15mn	0R25	600Ptp	50Ptp	IHS	HRS	-	-
IRF533	NME	TO220 Dd	60V	12A	150C	75WC	2/4V	-	45mn	0R25	800P	150P	RHG	IRC	ZVN1206L	MTP12N10E
IRF533R	NME	TO220 Dd	80V	12A	175C	79WC	2/4V	250µA	5.15mn	0R25	600Ptp	50Ptp	IHS	HRS	-	-
IRF540	NME	TO220 Dd	100V	27A	150C	125WC	2/4V	-	85mn	0R85	1N6	300P	RHG	IRC	VN2310N5	MTP33N10E
IRF540F	NME	ISO220 D	100V	16A	150C	40WC	2/4V	250µA	105mn	R077	2N0	100P	IHS	SGS	-	-
IRF540R	NME	TO220 Dd	100V	28A	175C	150WC	2/4V	250µA	8.75mn	R077	1N45tp	100Ptp	IHS	HRS	-	-
IRF541	NME	TO220 Dd	60V	27A	150C	125WC	2/4V	-	65mn	R085	1N6	300P	RHG	IRC	VN2306N5	MTP33N10E
IRF541R	NME	TO220 Dd	80V	28A	175C	150WC	2/4V	250µA	8.75mn	R077	1N45tp	100Ptp	IHS	HRS	-	-
IRF542	NME	TO220 Dd	100V	24A	150C	125WC	2/4V	-	65mn	0R11	1N6	300P	RHG	IRC	VN2310N5	MTP33N10E
IRF542R	NME	TO220 Dd	100V	25A	175C	150WC	2/4V	250µA	8.75mn	0R1	1N45tp	100Ptp	IHS	HRS	-	-
IRF543	NME	TO220 Dd	60V	24A	150C	125WC	2/4V	-	65mn	0R11	1N6	300P	RHG	IRC	VN2306N5	MTP33N10E
IRF543R	NME	TO220 Dd	80V	25A	175C	150WC	2/4V	250µA	8.75mn	0R1	1N45tp	100Ptp	IHS	HRS	-	-
IRF610	NME	TO220 Dd	200V	2.5A	150C	20WC	2/4V	-	800mSmm	1R5	150P	25P	RHH	IRC	ZVN1120L	MTP5N20
IRF610R	NME	TO220 Dd	200V	3.3A	150C	43WC	2/4V	250µA	800mSmm	1R5	135Ptp	16Ptp	IMS	HRS	-	-
IRF611	NME	TO220 Dd	150V	2.5A	150C	20WC	2/4V	-	800mSmm	1R5	150P	25P	RHH	IRC	ZVN1114L	MTP5N20
IRF611R	NME	TO220 Dd	150V	3.3A	150C	43WC	2/4V	250µA	800mSmm	1R5	135Ptp	16Ptp	IMS	HRS	-	-
IRF612	NME	TO220 Dd	200V	2A	150C	20WC	2/4V	-	800mSmm	2R4	150P	25P	RHH	IRC	ZVN1120L	MTP5N20
IRF612R	NME	TO220 Dd	200V	2.6A	150C	43WC	2/4V	250µA	800mSmm	2R4	135Ptp	16Ptp	IMS	HRS	-	-
IRF613	NME	TO220 Dd	150V	2A	150C	20WC	2/4V	-	800mSmm	2R4	150P	25P	RHH	IRC	ZVN1114L	MTP5N20
IRF613R	NME	TO220 Dd	150V	2.6A	150C	43WC	2/4V	250µA	800mSmm	2R4	135Ptp	16Ptp	IMS	HRS	-	-
IRF614	NME	TO220 Dd	250V	2A	150C	20WC	2/4V	250µAmx	800mSmm	2R0	180Ptp	14Ptp	IMS	IRC	-	-
IRF615	NME	TO220 Dd	250V	1.6A	150C	20WC	2/4V	250µAmx	800mSmm	3R0	180Ptp	14Ptp	IMS	IRC	-	-
IRF620	NME	TO220 Dd	200V	5A	150C	40WC	2/4V	-	1300mSmm	0R8	600P	80P	RHH	IRC	ZVN1120L	MTP5N20
IRF620F	NME	ISO220 D	200V	4A	150C	30WC	2/4V	250µA	1.35mn	0R8	600P	80P	IMS	SGS	-	-
IRF620R	NME	TO220 Dd	200V	5A	150C	40WC	2/4V	250µA	1.35mn	0R8	450Ptp	40Ptp	IHS	HRS	-	-
IRF621	NME	TO220 Dd	150V	5A	150C	40WC	2/4V	-	1300mSmm	0R8	600P	80P	RHH	IRC	ZVN1114L	MTP5N20
IRF621R	NME	TO220 Dd	150V	5A	150C	40WC	2/4V	250µA	1.35mn	0R8	450Ptp	40Ptp	IHS	HRS	-	-
IRF622	NME	TO220 Dd	200V	4A	150C	40WC	2/4V	-	1300mSmm	1R2	600P	80P	RHH	IRC	ZVN1120L	MTP5N20
IRF622R	NME	TO220 Dd	200V	4A	150C	40WC	2/4V	250µA	1.35mn	0R8	450Ptp	40Ptp	IMS	HRS	-	-
IRF623	NME	TO220 Dd	150V	4A	150C	40WC	2/4V	-	1300mSmm	1R2	600P	80P	RHH	IRC	ZVN1114L	MTP5N20
IRF623R	NME	TO220 Dd	150V	4A	150C	40WC	2/4V	250µA	1.35mn	0R8	450Ptp	40Ptp	IMS	HRS	-	-
IRF624	NME	TO220 Dd	250V	3.8A	150C	40WC	2/4V	250µAmx	1.45mn	1R1	340Ptp	32Ptp	IMS	IRC	-	-
IRF625	NME	TO220 Dd	250V	3.3A	150C	40WC	2/4V	250µAmx	1.45mn	1R5	340Ptp	32Ptp	IMS	IRC	-	-
IRF626	NME	TO220 Dd	275V	3.8A	150C	40WC	2/4V	250µAmx	1.45mn	1R1	340Ptp	32Ptp	IMS	HRS	-	-
IRF627	NME	TO220 Dd	275V	3.3A	150C	40WC	2/4V	250µAmx	1.45mn	1R5	340Ptp	32Ptp	IMS	IRC	-	-
IRF630	NME	TO220 Dd	200V	9A	150C	75WC	2/4V	-	35mn	0R4	800P	150P	RHH	IRC	ZVN1220L	MTP8N20