

T-91-60



Selection by Package

The product listed in Tables 1 through 22 have been compiled on an IBM or compatible personal computer disk for quick selection of product. This versatile disk may be obtained

by contacting a Motorola sale office in your area or by contacting a Motorola Literature Distribution Center listed on the back cover. Order the disk by requesting DK101/D.

Tables 1 through 22 are shown by package type. Within the tables the devices are arranged by breakdown voltage and on-resistance as the primary selection criteria. Device types shaded in Tables 1 through 8 are preferred devices recommended for new designs.

TMOS Power MOSFETS

Plastic Packages — TO-220AB



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Table 1 — P-Channel

	V(BR)DSS (Volts)		r _{DS(on)} @ I _D (Ohms)		Device	I _D (cont) (Amps)	P _D * (Watts) Max	Page
	Min	Max	Max	(Amps)				
	500	6	1		MTP2P50	2	75	3-407
	450				MTP2P45			3-407
	250	4	1.5		MTP3P25	3		3-427
		3	2.5		MTP5P25	5		3-447
		2	4		MTP8P25	8		3-462
NEW	200	0.5	6		IRF9640	11	125	3-147
NEW		0.8	3.5		IRF9630	6.5	75	3-145
		1	2.5		MTP5P20	5		3-442
	180				MTP5P18			3-442
	100	0.4	4		MTP8P10	8		3-457
		0.3	6		MTP12P10	12		3-493
	80	0.4	4		MTP8P08	8		3-457
					MTP12P08	12		3-493
NEW	60	0.6	3.5		MTP7P06	7		3-651
		0.3	6		MTP2955	12		3-806
					MTP12P06			3-493
	50	0.2	10		MTP20P06	20	100	3-740
		0.6	3.5		MTP7P05	7	75	3-651
		0.3	6		MTP12P05	12		3-493

* @ 25°C

Bold Type indicates new product.

Shaded devices are preferred devices and are recommended for new designs.

Table 2 — N-Channel

V(BR)DSS (Volts) Min	rDS(on) @ ID		Device	ID (cont) Amps	Pd* (Watts) Max	Page
	(Ohms) Max	(Amps)				
1000	10	0.5	MTP1N100	1	75	3-392
	4	1.5	MTP3N100	3		3-606
950	10	0.5	MTP1N95	1	75	3-392
	4	1.5	MTP3N95	3		3-606
900	8	1	MTP2N90	2	75	3-402
	4	2	MTP4N90	4		3-606
850	8	1	MTP2N85	2	75	3-402
	4	2	MTP4N85	4		3-606
800	7	1.5	MTP3N80	3	75	3-417
	3	1.7	BUZ80A			3-79
750	7	1.5	MTP3N75	3	75	3-417
	6	1	MTP2N60			3-566
600	12	0.5	MTP1N60	1	125	3-586
	6	1	MTP2N60	2		3-586
	2.5	1.5	MTP3N60	3		3-412
	2	2.5	BUZ90	4		3-85
550	12	0.5	MTP1N55	1	125	3-641
	6	1	MTP2N55	2		3-586
	2.5	1.5	MTP3N55	3		3-412
	1.2	3	MTP6N55	6		3-641
500	8	0.5	MTP1N50	1	50	3-561
	4	1	MTP2N50	2	75	3-397
	3	1.5	IRF820	2.5	40	3-139
			MTP3N50	3	75	3-601
	2	1.5	IRF832	4	40	3-141
			IRF830	4.5	40	3-141
	1.5	1.5	MTP4N50	4	40	3-432
			IRF842	7	125	3-143
	0.85	4	IRF840	8	125	3-143
	0.8		MTP8N50	8	125	3-672
450	8	0.5	MTP1N45	1	50	3-561
	4	1	MTP2N45	2	75	3-397
			IRF823	2	40	3-139
	3	1.5	IRF821	2.5	40	3-139
			MTP3N45	3	75	3-601
	2	2.5	IRF833	4	40	3-141
	1.5	2	MTP4N45	4	40	3-432
2.5		IRF831	4.5	40	3-141	

* @ 25°C
Bold Type indicates new product.
 Shaded devices are preferred devices and are recommended for new designs.

MOTOROLA TMOS POWER MOSFET DATA



Table 2 — N-Channel — continued

V_{DS} (Volts) Min	$r_{DS(on)}$ (Ohms) Max	I_D (Amps)	Device	I_D (cont) Amps	P_D^* (Watts) Max	Page	
450	1.1	4	IRF843	7	125	3-143	
	0.85		IRF841	8		3-143	
	0.8		MTP8N45			3-672	
400	5	1	MTP2N40	2	50	3-581	
	3.3	1.5	MTP3N40	3	75	3-596	
	2.5		IRF722	2.5	40	3-133	
	1.8		IRF720	3		3-133	
	1.5	3	IRF732	4.5	75	3-135	
	1		IRF730			3-135	
			2.5	MTP5N40	5		3-437
	0.55		IRF740	10	125	3-137	
			MTP10N40			3-704	
350	5	1	MTP2N35	2	50	3-581	
	1.5	3	IRF733	4.5	75	3-135	
	1		IRF731	5.5		3-135	
			2.5	MTP5N35	5		3-437
		0.55	5	IRF741	10	125	3-137
			MTP10N35	3-704			
250	2	1	MTP2N25	2	50	3-576	
	0.45	5	MTP10N25	10	100	3-478	
200	2.4	1.25	IRF612	2	20	3-123	
	1.8	1	MTP2N20		50	3-571	
	1.5	1.25	IRF610	2.5	20	3-123	
	1		MTP5N20	5	75	3-631	
	0.8		IRF620		40	3-125	
	0.7	3.5	MTP7N20	7	75	3-646	
	0.6	5	IRF632	8		3-127	
	0.4		IRF630	9		3-127	
		4	MTP8N20	8		3-452	
		3.5	BUZ73	7	40	3-75	
		0.35	6	MTP12N20	12	100	3-714
		0.22	10	IRF642	16	125	3-129
	0.18	IRF640		18		3-129	
150	0.8	2.5	IRF621	4	40	3-125	
	0.4	5	IRF631	9	75	3-127	
	0.3		MTP10N15	10		3-699	
	0.25	7.5	MTP15N15	15	100	3-729	
	0.22	10	IRF643	16	125	3-129	

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