



## Selection by Package

The product listed in this Selector Guide have been compiled on an IBM, IBM compatible or Macintosh 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 in the back. Order the disk by requesting DK101/D for an IBM disk or DK201/D for a Macintosh disk.

## TMOS Power MOSFETs

### Plastic Packages — TO-220AB

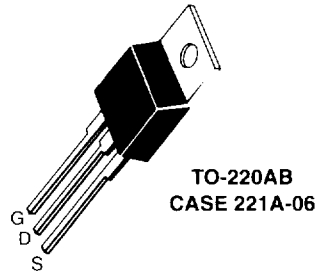


Table 1 — P-Channel

V <sub>DSS</sub> (Volts) Min	R <sub>DS(on)</sub> <sup>®</sup> (Ohms) Max	I <sub>D</sub> (Amps)	Device	I <sub>D</sub> (cont) Amps	P <sub>D</sub> <sup>*</sup> (Watts) Max
500	6	1	MTP2P50	2	75
450			MTP2P45		
200	1	3	MTP6P20E	6	60
	0.7	4	MTP8P20	8	
100	0.4	6	MTP8P10	12	88
	0.3		MTP12P10		
60	0.6	3.5	MTP7P06	7	75
	0.3	6	MTP2955		
			MTP12P06	23	125
	0.12	11.5	MTP23P06		

\* T<sub>C</sub> = 25 C

Table 2 — N-Channel

V <sub>DSS</sub> (Volts) Min	R <sub>DS(on)</sub> <sup>®</sup> (Ohms) Max	I <sub>D</sub> (Amps)	Device	I <sub>D</sub> (cont) Amps	P <sub>D</sub> <sup>*</sup> (Watts) Max
1000	4	1.5	MTP3N100E	3	75
800	3	2	MTP4N80E	4	50
	3.8	1	MTP2N60E	2	
		2.2	1.5	MTP3N60E	
600	1.2	3	MTP6N60E	6	125
		3	1.5	IRF820	2.5
	1.5	2	MTP3N50E	3	50
			IRF830	4.5	75
	0.85	4	MTP4N50E	4	125
			IRF840	8	
0.8		MTP8N50E			
400	1.8	1.5	IRF720	3	40
		2	MTP4N40E	4	50
	1	3	IRF730	4.5	75
		2.5	MTP5N40E	5	
	0.55	5	IRF740	10	125
			MTP10N40E		

\* T<sub>C</sub> = 25 C

# PLASTIC PACKAGES — TO-220AB (continued)

**Table 2 — N-Channel — continued**

V <sub>DSS</sub> (Volts) Min	R <sub>DS(on)</sub> ® (Ohms)		I <sub>D</sub> (Amps)	Device	I <sub>D</sub> (cont) Amps	P <sub>D</sub> * (Watts) Max
	Max	I <sub>D</sub> (Amps)				
250	0.45	5		MTP10N25	10	100
200	1.5	1.3		IRF610	2.5	20
				MTP5N20	5	75
	1			IRF620		40
	0.8					
	0.7	3.5		MTP7N20	7	75
	0.4	3		IRF630	9	
		4		MTP8N20	8	
	0.35	6		MTP12N20	12	100
	0.18	10		IRF640	18	125
0.15			MTP20N20E	20		
150	0.3	5		MTP10N15	10	75
	0.25	7.5		MTP15N15	15	100
100	0.6	2		IRF510	4	20
	0.27	5		IRF520	9	40
	0.25			MTP10N10E	10	75
		7		IRF530	14	
	0.16			MTP12N10E	12	

\* T<sub>C</sub> = 25 C

V <sub>DSS</sub> (Volts) Min	R <sub>DS(on)</sub> ® (Ohms)		I <sub>D</sub> (Amps)	Device	I <sub>D</sub> (cont) Amps	P <sub>D</sub> * (Watts) Max
	Max	I <sub>D</sub> (Amps)				
100	0.077	14		IRF540	28	125
	0.058	16.5		MTP33N10E	33	150
60	0.15	6		MTP3055E	12	40
	0.12	7.5		MTP15N06E	15	75
	0.085	10		MTP20N06	20	
	0.04	18		MTP36N06E	36	
	0.025	25		MTP50N06E	50	150
	50	0.12	6		BUZ71A	12
				MTP12N05E		
				IRFZ22	14	
0.1				BUZ71	12	
			7.5	MTP15N05E	15	
				IRFZ20		
0.06		15		BUZ11A	25	75
0.04				BUZ11	30	
0.028		25		MTP50N05E	50	150

\* T<sub>C</sub> = 25 C

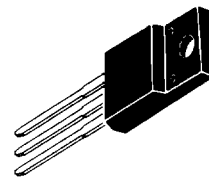
**Table 3 — N- and P-Channel — Isolated TO-220**

V <sub>DSS</sub> (Volts) Min	R <sub>DS(on)</sub> ® (Ohms)		I <sub>D</sub> (Amps)	Device	I <sub>D</sub> (cont) Amps	P <sub>D</sub> * (Watts) Max
	Max	I <sub>D</sub> (Amps)				
600	2.2	1.5		MTA2N60E	2	40
	1.2	3		MTA4N60E	4	50
500	1.5	2		MTA4N50E		40
	0.8	4		MTA5N50E	5	50
400	0.55	5		MTA6N40E	6	
100	0.25			MTA8N10E	8	35
	0.16	11		MTA11N10EL	11	40
	0.077	11.5		MTA21N10EL	21	50
60	0.3	6		MTA2955**	8	40
	0.15			MTA3055E	9	30
	0.085	7.5		MTA15N06	15	50
	0.025	25		MTA30N06E	30	

\* T<sub>C</sub> = 25 C

\*\* Indicates P-Channel

Ⓢ Indicates that Isolated TO-220 devices are U.L. Recognized



**CASE 221D-02  
ISOLATED TO-220  
(MTA PREFIX)**