

Plastic Packages — TO-220AB (continued)

Table 4 — N-Channel — continued

$V_{(BR)DSS}$ (Volts) Min	$r_{DS(on)}$ @ I_D (Ohms) Max	I_D (Amps)	Device	I_D (cont) Amps	P_D^* (Watts) Max
100	0.085	15	IRF540	27	125
		12.5	MTP25N10	25	
	0.075		MTP25N10E		
80	0.8	2	MTP4N08	4	50
	0.5	4	MTP8N08	8	75
	0.33	5	MTP10N08	10	
	0.18	6	MTP12N08	12	
	0.15	10	MTP20N08	20	100
60	0.8	2	IRF513	3.5	20
			IRF511	4	
	0.6	2.5	MTP5N06	5	50
			MTP7N06	7	
	0.4	3.5	IRF523		40
		4	IRF521	8	
	0.3				75
	0.28	5	MTP10N06	10	
	0.25	8	IRF533	12	
	0.2	5	MTP10N06E	10	
		6	MTP12N06		
	0.18	8	IRF531	14	40
	0.16	7.5	MTP15N06	15	
	0.15		MTP15N06E		
		6	MTP3055E	12	
	0.085	15	IRF541	27	125

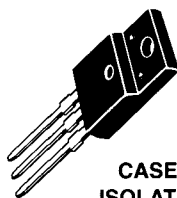
* @ 25°C

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

$V_{(BR)DSS}$ (Volts) Min	$r_{DS(on)}$ @ I_D (Ohms) Max	I_D (Amps)	Device	I_D (cont) Amps	P_D^* (Watts) Max
60	0.08	12.5	MTP25N06	25	100
			MTP25N06E		
	0.055	17.5	MTP35N06E	35	125
50	0.6	2.5	MTP5N05	5	50
	0.28	5	MTP10N05	10	75
	0.16	7.5	MTP15N05	15	
	0.12	6	BUZ71A	12	40
			MTP12N05E		
			IRFZ22	14	
	0.1	7.5	BUZ71	12	15
			MTP15N05E	15	
			IRFZ20		
	0.08	12.5	MTP25N05	25	100
	0.07		MTP25N05E		
			IRFZ32		
	0.06	15	BUZ11A		75
	0.05		MTP30N05E	30	
	0.04		BUZ11		
	0.035	29	MTP45N05E	45	125
			IRFZ42	46	
	0.028	25	MTP50N05E	50	
		29	IRFZ40	51	

* @ 25°C

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



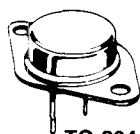
CASE 221D-01
ISOLATED TO-220

Table 5 — N- and P-Channel — Isolated TO-220

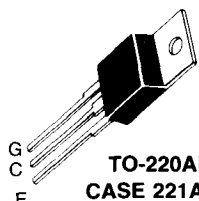
	$V_{(BR)DSS}$ (Volts) Min	$r_{DS(on)}$ @ I_D (Ohms) Max	I_D (Amps)	Device	I_D (cont) Amps	P_D^* (Watts) Max
NEW	60	0.3	6	MTA2955**	7	33
NEW		0.15		MTA3055E	10	
NEW		0.1	7.5	MTA15N06E	15	40
NEW		0.028	25	MTA30N06E	30	50

* @ 25°C

** Indicates P-Channel



TO-204AA
(TO-3)
CASE 1-06



TO-220AB
CASE 221A-04

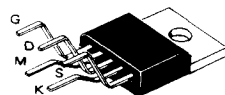
TMOS Power MOSFETs

Gain Enhanced MOSFETs (IGBTs)

This relatively new series of power field-effect transistors combines the high input resistance of a MOSFET with the low internal on-resistance of a bipolar transistor to provide more efficient performance than either a MOSFET or bipolar device in low-frequency switching service. Recommended for motor drive circuits, home appliances, and other applications where high switching speed is not a requirement. All are N-Channel.

TMOS SENSEFETs

CASE 314B
(5 PIN TO-220)



SENSEFETs are conventional power MOSFETs with an option provided to sense the drain current by measuring a small proportion of the total drain current. These devices are ideal for current mode switching regulators and motor controls.

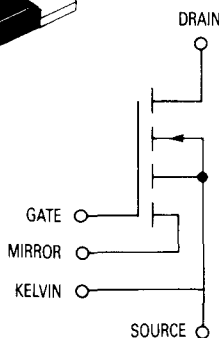


Table 15 — Case 314B

$V_{(BR)DSS}$ (Volts) Min	$r_{DS(on)}$ @ I_D (Ohms) Max	I_D (Amps)	Device	I_D (cont) Amps	P_D^* (Watts) Max
60	0.04	20	MTP40N06M	40	125
80	0.065	15	MTP30N08M	30	
100	0.25	5	MTP10N10M	10	75
	0.085	12.5	MTP25N10M	25	100
250	1.5	4	MTP4N25M	4	75
	0.45	2	MTP10N25M	10	100

* @ 25°C

Bold Type indicates new product.

Table 13 — TO-220AB

$V_{(BR)CES}$ (Volts) Min	$r_{CE(on)}$ @ I_C (Ohms) Max	I_C (Amps)	Device	I_C (cont) Amps	P_D^* (Watts) Max
500	0.27	10	MGP20N50	20	100
	1.6	2.5	MGP5N50	5	50
450	0.27	10	MGP20N45	20	100
	1.6	2.5	MGP5N45	5	50

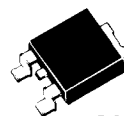
* @ 25°C

Table 14 — TO-204AA

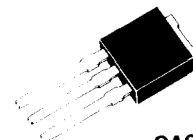
$V_{(BR)DSS}$ (Volts) Min	$r_{DS(on)}$ @ I_D (Ohms) Max	I_D (Amps)	Device	I_D (cont) Amps	P_D^* (Watts) Max
500	0.27	10	MGM20N50	20	100
	1.6	2.5	MGM5N50	5	50
450	0.27	10	MGM20N45	20	100
	1.6	2.5	MGM5N45	5	50

* @ 25°C

DDPAK



CASE 369A-03



CASE 369-04

Table 16 — Case 369A-04 Surface Mount
Case 369-03 Insertion Mountable

$V_{(BR)DSS}$ (Volts) Min	$r_{DS(on)}$ @ I_D (Ohms) Max	I_D (Amps)	Device	I_D (cont) Amps	P_D^* (Watts) Max
500	4	1	MTD2N50	2	1.75**
400	5	0.5	MTD1N40	1	
200	0.7	2	MTD4N20	4	
	1.5	1	MTD2N20	2	
150	0.3	3	MTD6N15	6	
100	0.25		MTD6N10		
80			MTD6N08		
60	0.6	2	MTD4P06†	4	
	0.4	2.5	MTD5N06	5	
	0.3	6	MTD2955†	12	
	0.15	4	MTD3055E	8	
50	0.6	2	MTD4P05†	4	
	0.4	2.5	MTD5N05	5	
	0.1	5	MTD10N05E	10	

* @ 25°C

** Power rating when mounted on a board with the minimum pad size recommended.

*** Add -1 Suffix to part number to order insertion mountable package.

**** Available in tape and reel.

† Indicates P-Channel

Bold Type indicates new product.

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