

GENERAL-PURPOSE SMALL-SIGNAL AMPLIFIERS

Type No.	POLARITY	P _D T _A = 25 C (mW)	V _(BR) CBO Volts	V _(BR) CEO Volts	V _(BR) EBO Volts	I _{CBO} nA Max.	D-C CURRENT GAIN (h _{FE})				V _{CE(SAT)}		f _T Min. (MHz)	C _{cb} Max. (pF)	t _{off} Max. (nsec)	N.F. Max. (dB)
							Conditions		Limits							
							I _C (mA)	V _{CE} Volts	Min.	Max.	I _C (mA)	Max. Volts				
MPS6515	NPN	500	40	25	4	50	2	10	250	500	50	0.5	390*	3.5	—	—
MPS6516	PNP	500	40	40	4	50	2	10	50	100	50	0.5	200*	4.0	—	—
MPS6517	PNP	500	40	40	4	50	2	10	90	180	50	0.5	200*	4.0	—	—
MPS6518	PNP	500	40	40	4	50	2	10	150	300	50	0.5	340*	4.0	—	—
MPS6519	PNP	500	25	25	4	50	2	10	250	500	50	0.5	340*	4.0	—	—
MPS6520	NPN	500	40	25	4	50	2	10	200	400	50	0.5	390*	3.5	—	3.0
MPS6521	NPN	500	40	25	4	50	2	10	300	600	50	0.5	390*	3.5	—	3.0
MPS6522	PNP	500	25	25	4	50	2	10	200	400	50	0.5	340*	4.0	—	3.0
MPS6523	PNP	500	25	25	4	50	2	10	300	600	50	0.5	340*	4.0	—	3.0
MPS6530	NPN	360	60	40	5	50	100	1	40	120	100	0.5	390*	5.0	—	—
MPS6531	NPN	360	60	40	5	50	100	1	90	270	100	0.3	390*	5.0	—	—
MPS6532	NPN	360	50	30	5	50	100	1	30	—	100	0.5	390*	5.0	—	—
MPS6533	PNP	360	40	40	4	50	100	1	40	120	100	0.5	260*	8.0	—	—
MPS6534	PNP	360	40	40	4	50	100	1	90	270	100	0.3	260*	8.0	—	—
MPS6535	PNP	360	30	30	4	50	100	1	30	—	100	0.5	260*	8.0	—	—
MPS6560	NPN	360	25	25	4	100	500	1	50	200	500	0.5	60	30.0	—	—
MPS6561	NPN	360	20	20	4	100	300	1	50	200	350	0.5	60	30.0	—	—
MPS6562	PNP	360	25	25	4	100	500	1	50	200	500	0.5	60	30.0	—	—
MPS6563	PNP	360	20	20	4	100	300	1	50	200	350	0.5	60	30.0	—	—
MPS6564	NPN	360	45	45	5	500	5	10	25	—	10	0.5	—	4.0	—	—
MPS6565	NPN	360	60	45	4	100	10	10	40	160	10	0.4	200	3.5	—	4*
MPS6566	NPN	360	60	45	4	100	10	10	100	400	10	0.40	200	3.5	—	4*
TP3566	NPN	625	40	30	5	50	10	10	150	600	100	1.00	40	8.0	—	—
TP5135	NPN	625	30	25	4	300	10	10	50	600	100	1.00	40	8.0	—	—
TP5136	NPN	625	30	20	3	100	150	1	20	400	150	0.25	40	8.0	—	—



TO-92
Package
(EBC
Pinning)

HIGH-SPEED, MEDIUM CURRENT SWITCHES/AMPLIFIERS

Type No.	POLARITY	P _D @ 25 °C mW Max.	MAX. RATING			I _{CBO} nA Max.	CURRENT AMPLI. FACTOR			Saturation Voltage (Max.)				f _T Min (MHz)	C _{ob} (pF)
			V _(BR) CBO Volts	V _(BR) CEO Volts	V _(BR) EBO Volts		h _{FE} @ I _C =10mA Min.-Max.	h _{FE} @ I _C =150mA Min.-Max.	h _{FE} @ I _C =500mA Min.-Max.	I _C mA	I _B mA	V _{CE} Volts	V _{BE} Volts		
TP2221	NPN	500	60	30	5	10	35	40-120	20	150	15	0.40	1.6	250	8
TP2221A	NPN	500	75	40	6	10	35	40-120	25	150	15	0.30	1.2	250	8
TP2222	NPN	500	60	30	5	10	75	100-300	30	150	15	0.40	1.6	250	8
TP2222A	NPN	500	75	40	6	10	75	100-300	40	150	15	0.30	1.2	300	8
TP2906	PNP	400	60	40	5	20	35	40-120	20	150	15	0.40	1.3	200	8
TP2906A	PNP	400	60	60	5	10	40	40-120	30	150	15	0.40	1.3	200	8
TP2907	PNP	400	60	40	5	20	75	100-300	40	150	15	0.40	1.3	200	8
TP2907A	PNP	400	60	60	5	10	100	100-300	50	150	15	0.40	1.3	200	8
TP3115	NPN	400	60	20	5	25	—	40-120	—	150	15	0.50	1.3	250	8
TP3116	NPN	400	60	20	5	25	—	100-300	—	150	15	0.50	1.3	250	8
TP3135	PNP	400	50	35	4	50	25Ⓢ	40-120	—	150	15	0.60	1.5	200	10
TP3136	PNP	400	50	35	4	50	50Ⓢ	100-300	—	150	15	0.60	1.5	200	10



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LOW NOISE AMPLIFIERS/SWITCHES

Type No.	POLARITY	P _D @ 25 C (mW) Max.	MAX. RATINGS			I _{CBO} nA Max.	h _{FE} @ I _C = 10μA	Saturation Voltage (Max.)				f _T Min. (MHz)	C _{ob} Max. (pF)	N.F. Max. (dB)
			V _(BR) CBO Volts	V _(BR) CEO Volts	V _(BR) EBO Volts			I _C (mA)	I _B (mA)	V _{CE} Volts	V _{BE} Volts			
TP2483	NPN	400	60	60	6	10	40-120	1	0.1	0.35	0.70	60	6	4
TP2484	NPN	400	60	60	6	10	100-500	1	0.1	0.35	0.70	60	6	3
TP4384	NPN	500	40	30	5	10	100-500	10	1	0.20	0.80	30	8	2
TP4386	NPN	500	40	30	5	10	40-500	10	1	0.20	0.80	30	8	3
TP4413	PNP	400	40	30	5	10	100-500	10	1	0.20	0.80	20	8	2
TP4413A	PNP	400	60	60	5	10	100-500	10	1	0.20	0.80	20	8	2
TP4415	PNP	400	40	30	5	10	40-500	10	1	0.20	0.80	20	8	2
TP4415A	PNP	400	60	60	5	10	40-500	10	1	0.20	0.80	20	8	2



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