GENERAL-PURPOSE SMALL-SIGNAL AMPLIFIERS

TO-92 Package
(EBC Pinning)

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}) Conditions I_C (mA)	V_{CE} Volts	Limits Min.	Max.	$V_{CE(SAT)}$ I_C (mA)	Max Volts	f_T Min. (MHz)	C_{cb} Max. (pF)	t_{off} Max. (nsec)	N.F. Max. (dB)
2N3693	NPN	400	45	45	4	50	10	10	40	160	–	–	200	3.5	–	–
2N3694	NPN	400	45	45	4	50	10	10	100	400	–	–	200	3.5	–	–
2N3827	NPN	400	60	45	4	100	10	10	100	400	–	–	200	3.5	–	–
2N5127	NPN	400	20	12	3	50	2	10	15	300	10	0.3	150	3.5	–	–
2N5131	NPN	400	20	15	3	50	10	1	30	500	10	1.0	100	6.0	–	–
2N5132	NPN	400	20	20	3	50	10	10	30	400	10	2.0	200	3.5	–	–
2N5219	NPN	360	20	15	3	100	2	10	35	500	10	0.40	150	4.0	–	–
2N5223	NPN	360	25	20	3	100	2	10	50	800	10	0.70	150	4.0	–	–
2N5225	NPN	360	25	25	4	300	50	10	30	600	100	0.80	50	20.0	–	–
2N5226	PNP	360	25	25	4	300	50	10	30	600	100	0.80	50	20.0	–	–
2N5227	PNP	360	30	30	3	100	2	10	50	700	10	0.40	100	5.0	–	–
MPS-A05	NPN	360	60	60	4	100	10	1	50	–	100	0.25	100	6.0*	–	–
MPS-A06	NPN	400	80	80	4	100	10	1	50	–	100	0.25	100	6.0*	–	–
MPS-A10	NPN	400	40	40	4	100	5	10	40	400	–	–	50*	4.0	–	–
MPS-A20★	NPN	360	40	30	4	100	5	10	40	400	10	0.25	125	4.0	–	–
MPS-A55	PNP	400	60	60	4	100	10	1	50	–	100	0.25	100	6.0*	–	–
MPS-A56	PNP	400	80	80	4	100	10	1	50	–	100	0.25	100	6.0*	–	–
MPS-A70★	PNP	360	40	30	4	100	5	10	40	400	10	0.25	125	4.0	–	–
MPS2711	NPN	360	18	18	5	500	2	4.5	30	90	–	–	–	12.0	–	–
MPS2712	NPN	360	18	18	5	500	2	4.5	75	225	–	–	–	12.0	–	–
MPS2923	NPN	360	25	25	5	500	2	10	†90	180	–	–	–	12.0	–	–
MPS2924	NPN	360	25	25	5	500	2	10	†150	300	–	–	–	12.0	–	–
MPS2925	NPN	360	25	25	5	500	2	10	†235	470	–	–	–	12.0	–	–
MPS2926■	NPN	360	18	18	5	500	2	10	†35	470	–	–	–	12.0	–	–
MPS3392	NPN	360	25	25	5	100	2	4.5	150	300	–	–	–	10.0	–	–
MPS3393	NPN	360	25	25	5	100	2	4.5	90	180	–	–	–	10.0	–	–
MPS3394	NPN	360	25	25	5	100	2	4.5	55	110	–	–	–	10.0	–	–
MPS3395▼	NPN	360	25	25	5	100	2	4.5	150	500	–	–	–	10.0	–	–
MPS3396▼	NPN	360	25	25	5	100	2	4.5	90	500	–	–	–	10.0	–	–
MPS3397▼	NPN	360	25	25	5	100	2	4.5	55	500	–	–	–	10.0	–	–
MPS3398▼	NPN	360	25	25	5	100	2	4.5	55	800	–	–	–	10.0	–	–
MPS3693	NPN	400	45	45	4	50	10	10	40	160	–	–	200	3.5	–	–
MPS3694	NPN	400	45	45	4	50	10	10	100	400	–	–	200	3.5	–	–
MPS3702	PNP	360	40	25	5	100	50	5	60	300	50	0.25	100	12.0	–	–
MPS3703	PNP	360	50	30	5	100	50	5	30	150	50	0.25	100	12.0	–	–
MPS3704	NPN	360	50	30	5	100	50	2	100	500	100	0.60	100	12.0	–	–
MPS3705	NPN	360	50	30	5	100	50	2	50	150	100	0.80	100	12.0	–	–
MPS3706	NPN	360	40	20	5	100	50	2	30	600	100	1.00	100	12.0	–	–
MPS3707	NPN	360	30	30	6	100	0.1	5	100	400	10	1.00	–	–	–	5
MPS3708	NPN	360	30	30	6	100	1	5	45	660	10	1.00	–	–	–	–
MPS3709	NPN	360	30	30	6	100	1	5	45	165	10	1.00	–	–	–	–
MPS3710	NPN	360	30	30	6	100	1	5	90	330	10	1.00	–	–	–	–
MPS3711	NPN	360	30	30	6	100	1	5	180	660	10	1.00	–	–	–	–
MPS3721	NPN	360	18	18	5	500	2	10	160	660	–	–	–	10.0	–	–
MPS5172	NPN	360	25	25	5	100	10	10	100	500	10	0.25	–	10.0	–	–
MPS6512	NPN	500	40	30	4	50	2	10	50	100	50	0.5	250*	3.5	–	–
MPS6513	NPN	500	40	30	4	50	2	10	90	180	50	0.5	250*	3.5	–	–
MPS6514	NPN	500	40	25	4	50	2	10	150	300	50	0.5	390*	3.5	–	–

†AC Current Gain, h_{FE} @ f = 1kHz *Typical value