



Transistors

T-27-01

ROHM

Transistors

• NPN Transistors (TO-92)

General Purpose Small Signal Amplifiers

Type	Package (Fig. 1)	BV _{CEO} Min.	BV _{CE0} Min.	BV _{EBO} Min.	I _{CBO} Max.	@ V _{CB}	h _{FE} Min. Max.	@ I _C & V _{CE}	V _{CE(sat)} Max.	& V _{BE(sat)} Max.	@ I _C	Cob Max.	f _T Min.	@ I _C	NF	I _C Max.
2N3707 MPS3707	TO-92 (ECB) (EBC)	30V	30V	6 V	100nA	20V	100 400	100μA 5V	1.0V		10mA				5 dB	30mA
2N3708 MPS3708	TO-92 (ECB) (EBC)	30V	30V	6 V	100nA	20V	45 660	1.0mA 5V	1.0V		10mA					30mA
2N3709 MPS3709	TO-92 (ECB) (EBC)	30V	30V	6 V	100nA	20V	45 165	1.0mA 5V	1.0V		10mA					30mA
2N3710 MPS3710	TO-92 (ECB) (EBC)	30V	30V	6 V	100nA	20V	90 330	1.0mA 5V	1.0V		10mA					30mA
2N3711 MPS3711	TO-92 (ECB) (EBC)	30V	30V	6 V	100nA	20V	180 660	1.0mA 5V	1.0V		10mA					30mA
2N3900A	TO-92 (ECB)	18V	18V	5 V	100nA	18V	250 500	2.0mA 4.5V				12 pF	160MHz	Typ.	5 dB	200mA
2N4409	TO-92 (EBC)	80V	50V	5 V	10nA	60V	60 60	1.0mA 1.0V 400 10mA 1.0V	0.2V	0.8V	1.0mA	12 pF	60MHz	10mA		250mA
2N4494	TO-92 (EBC)	60V	45V	4 V	100nA	30V	40 160	10mA 10V				3.5pF	200MHz	Typ.		200mA
2N4495	TO-92 (EBC)	60V	45V	4 V	100nA	30V	100 400	10mA 10V				3.5pF	200MHz	Typ.		200mA
2N5088	TO-92 (EBC)	35V	30V	4.5V	50nA	20V	300 900 350 1.0mA 5V 300 10mA 5V	5V	0.5V	0.8V	10mA	4 pF	50MHz	0.5mA	3 dB	50mA
2N5089	TO-92 (EBC)	30V	25V	4.5V	50nA	15V	400 1200 450 1.0mA 5V 400 10mA 5V	5V	0.5V	0.8V	10mA	4 pF	50MHz	0.5mA	3 dB	50mA
2N5172 MPS5172	TO-92 (ECB) (EBC)	25V	25V	5V	100nA	25V	100 500	10mA 10V	0.25V	0.8V	10mA	10 pF	200MHz	Typ.		100mA
2N5209	TO-92 (EBC)	50V	50V	4.5V	50nA	35V	100 300 150 1.0mA 5V 150 10mA 5V	5V	0.7V	0.85V	10mA	4 pF	30MHz	0.5mA	3 dB	50mA
2N5210	TO-92 (EBC)	50V	50V	4.5V	50nA	35V	200 600 250 1.0mA 5V 250 10mA 5V	5V	0.7V	0.85V	10mA	4 pF	30MHz	0.5mA	2 dB	50mA
2N5232A	TO-92 (ECB)	70V	50V	5 V	30nA	50V	250 500	2mA 5V	0.125V		10mA	4 pF			5 dB	100mA
MPS2712	TO-92 (EBC)	18V	17V	5 V	0.5nA	18V	75 225	2mA 4.5V				12 pF				100mA
MPS6564	TO-92 (EBC)	—	45V	5 V	500nA	40V	25	10mA 5V	0.5V		10mA	4 pF				200mA
MPS6565	TO-92 (EBC)	60V	45V	4 V	100nA	30V	40 160	10mA 10V	0.4V		10mA	3.5pF			4 dB	200mA
MPS6566	TO-92 (EBC)	60V	45V	4 V	100nA	30V	100 400	10mA 10V	0.4V		10mA	3.5pF			4 dB	200mA
MPS6571	TO-92 (EBC)	20V	20V	3 V	50nA	20V	250 1000	100μA 5V	0.5V		10mA	4.5pF	50MHz	0.5mA	1.2dB	50mA
MPS8097	TO-92 (EBC)	60V	40V	6 V	30nA 10μA	40V 60V	250 700	100μA 5V	0.3V		50mA	4 pF	200MHz	10mA	2 dB	200mA
MPS-A09	TO-92 (EBC)	50V	50V	3 V	100nA	25V	100 600	100μA 5V	0.9V		10mA	5 pF	30MHz	0.5mA	1.4dB	50mA
MPS-A18	TO-92 (EBC)	45V	45V	6.5V	50nA	30V	400 — 400 — 500 — 500 1500	10μA 5V 100μA 5V 1.0mA 5V 10mA 5V	0.2V 0.3V		10mA 50mA	3 pF	100MHz	1mA	1.5dB	200mA
MPS-A20	TO-92 (EBC)	40V	40V	4 V	100nA	30V	40 400	5mA 10V	0.25V		10mA	4 pF	125MHz	5mA		100mA

General Purpose Amplifiers and Switches

Type	Package (Fig. 1)	BV _{CEO} Min.	BV _{CE0} Min.	BV _{EBO} Min.	I _{CBO} Max.	@ V _{CB}	h _{FE} Min. Max.	@ I _C & V _{CE}	V _{CE(sat)} Max.	& V _{BE(sat)} Max.	@ I _C	Cob Max.	f _T Min.	@ I _C	t _{off} Max.	I _C Max.
PN2218	TO-92 (EBC)	60V	30V	5 V	10nA	50V	20 25 35 20 40 20	0.1mA 10V 1.0mA 10V 10mA 10V 150mA 1V 150mA 10V 500mA 10V	0.4V 1.6V	1.3V 2.6V	150mA 500mA	8 pF	250MHz	20mA		800mA
PN2218A	TO-92 (EBC)	75V	40V	6 V	10nA	60V	20 25 35 20 40 20	0.1mA 10V 1.0mA 10V 10mA 10V 150mA 1V 150mA 10V 500mA 10V	0.3V 1V	1.2V 2V	150mA 500mA	8 pF	250MHz	20mA	285	800mA