



Transistors

ROHM

T-35-01

General Purpose Amplifiers and Switches

Type	Package (Fig. 1)	V _{CE0} Min.	V _{CE0} Min.	V _{CE0} Min.	I _{CE0} Max.	@ V _{CE}	h _{FE} Min. Max.	@ I _C & V _{CE}	V _{CE(sat)} Max.	& V _{BE(sat)} Max.	@ I _C	C _{ob} Max.	f _r Min.	@ I _C	t _{off} Max.	I _C Max.
PN2219	TO-92 (EBC)	60V	30V	5V	10nA	50V	35 50 75 50 100 30	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
PN2219A	TO-92 (EBC)	75V	40V	6V	10nA	60V	35 60 75 50 100 30	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
PN2221	TO-92 (EBC)	60V	30V	5V	10nA	60V	20 25 35 40 20 20	0.1mA 10V 1.0mA 10V 10mA 10V 150mA 10V 150mA 1V 500mA 10V	0.4V 1.6V	1.3V 2.6V	150mA 500mA	8 pF	250MHz	20mA		800mA
PN2221A	TO-92 (EBC)	75V	40V	6V	10nA	60V	20 25 35 40 20 20	0.1mA 10V 1.0mA 10V 10mA 10V 150mA 10V 150mA 1V 500mA 10V	0.3V 1V	1.2V 2V	150mA 500mA	8 pF	250MHz	20mA	285	800mA
PN2222	TO-92 (EBC)	60V	30V	5V	10nA	50V	35 50 75 100 50 30	0.1mA 10V 1.0mA 10V 10mA 10V 150mA 10V 150mA 1V 500mA 10V	0.4V 1.6V	1.3V 2.6V	150mA 500mA	8 pF	250MHz	20mA		800mA
PN2222A	TO-92 (EBC)	75V	40V	6V	10nA	60V	35 50 75 100 50 30	0.1mA 10V 1.0mA 10V 10mA 10V 150mA 10V 150mA 1V 500mA 10V	0.3V 1V	1.2V 2V	150mA 500mA	8 pF	250MHz	20mA	285	800mA
2N3704 MPS3704	TO-92 (ECB) (EBC)	50V	30V	5V	100nA	20V	100 300	50mA 2V	0.6V	1.0V	100mA	12 pF	100MHz	50mA		800mA
2N3705 MPS3705	TO-92 (ECB) (EBC)	50V	30V	5V	100nA	20V	50 150	50mA 2V	0.8V	1.0V	100mA	12 pF	100MHz	50mA		800mA
2N3706 MPS3706	TO-92 (ECB) (EBC)	40V	20V	5V	100nA	20V	30 600	50mA 2V	1.0V	1.0V	100mA	12 pF	100MHz	50mA		800mA
2N3903	TO-92 (EBC)	60V	40V	6V	50nA	30V (CEX)	20 35 50 30 15	0.1mA 1V 1.0mA 1V 10mA 1V 50mA 1V 100mA 1V	0.2V 0.3V	0.85V 0.95V	10mA 50mA	4 pF	250MHz	10mA	225ns	200mA
2N3904	TO-92 (EBC)	60V	40V	6V	50nA	30V (CEX)	40 70 100 60 30	0.1mA 1V 1.0mA 1V 10mA 1V 50mA 1V 100mA 1V	0.2V 0.3V	0.85V 0.95V	10mA 50mA	4 pF	300MHz	10mA	250ns	200mA
2N3946 PN3946	TO-92 (EBC)	60V	40V	6V	10nA	40V (CEX)	30 45 50 20	0.1mA 1V 1.0mA 1V 10mA 1V 50mA 1V	0.2V 0.3V	0.9V 1.0V	10mA 50mA	4 pF	250MHz NF=5dB Max.	10mA	375ns	200mA
2N3947 PN3947	TO-92 (EBC)	60V	40V	6V	10nA	40V (CEX)	60 90 100 40	0.1mA 1V 1.0mA 1V 10mA 1V 50mA 1V	0.2V 0.3V	0.9V 1.0V	10mA 50mA	4 pF	300MHz NF=5dB Max.	10mA	450ns	200mA
2N4123	TO-92 (EBC)	40V	30V	5V	50nA	20V	50 25	2.0mA 1V 50mA 1V	0.3V	0.95V	50mA	4 pF	250MHz	10mA		200mA
2N4124	TO-92 (EBC)	30V	25V	5V	50nA	20V	120 360 60	2.0mA 1V 50mA 1V	0.3V	0.95V	50mA	4 pF	300MHz	10mA		200mA
2N4400	TO-92 (EBC)	60V	40V	6V	10nA	35V (CEX)	20 40 50 20	0.1mA 1V 1.0mA 1V 150mA 1V 500mA 2V	0.4V 0.75V	0.95V 1.2V	150mA 500mA	6.5pF	200MHz	20mA	255ns	600mA
2N4401	TO-92 (EBC)	60V	40V	6V	100nA	35V (CEX)	20 80 100 300	0.1mA 1V 1mA 1V 10mA 1V 150mA 1V	0.4V 0.75V	0.95V 1.2V	150mA 500mA	6.5pF	250MHz	20mA	225ns	600mA

