



Transistors

ROHM

T-35-01

General Purpose Amplifiers and Switches

Type	Package (Fig. 1)	V _{CE0} Min.	V _{CE0} Min.	V _{EB0} Min.	I _{CB0} 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 0.1mA 10V 50 1.0mA 10V 75 10mA 10V 50 150mA 1V 100 300 150mA 10V 30 500mA 10V	0.4V 1.3V 150mA 1.6V 2.6V 500mA	8 pF	250MHz 20mA		800mA
PN2219A	TO-92 (EBC)	75V	40V	6V	10nA 60V	35 0.1mA 10V 60 1.0mA 10V 75 10mA 10V 50 150mA 1V 100 300 150mA 10V 30 500mA 10V	0.3V 1.2V 150mA 1V 2V 500mA	8 pF	250MHz 20mA	285	800mA
PN2221	TO-92 (EBC)	60V	30V	5V	10nA 60V	20 0.1mA 10V 25 1.0mA 10V 35 10mA 10V 40 120 150mA 10V 20 150mA 1V 20 500mA 10V	0.4V 1.3V 150mA 1.6V 2.6V 500mA	8 pF	250MHz 20mA		800mA
PN2221A	TO-92 (EBC)	75V	40V	6V	10mA 60V	20 0.1mA 10V 25 1.0mA 10V 35 10mA 10V 40 120 150mA 10V 20 150mA 1V 20 500mA 10V	0.3V 1.2V 150mA 1V 2V 500mA	8 pF	250MHz 20mA	285	800mA
PN2222	TO-92 (EBC)	60V	30V	5V	10nA 50V	35 0.1mA 10V 50 1.0mA 10V 75 10mA 10V 100 300 150mA 10V 50 150mA 1V 30 500mA 10V	0.4V 1.3V 150mA 1.6V 2.6V 500mA	8 pF	250MHz 20mA		800mA
PN2222A	TO-92 (EBC)	75V	40V	6V	10nA 60V	35 0.1mA 10V 50 1.0mA 10V 75 10mA 10V 100 300 150mA 10V 50 150mA 1V 30 500mA 10V	0.3V 1.2V 150mA 1V 2V 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 0.1mA 1V 35 1.0mA 1V 50 150 10mA 1V 30 50mA 1V 15 100mA 1V	0.2V 0.85V 10mA 0.3V 0.95V 50mA	4 pF	250MHz 10mA	225ns	200mA
2N3904	TO-92 (EBC)	60V	40V	6V	50nA 30V (CEX)	40 0.1mA 1V 70 1.0mA 1V 100 300 10mA 1V 60 50mA 1V 30 100mA 1V	0.2V 0.85V 10mA 0.3V 0.95V 50mA	4 pF	300MHz 10mA	250ns	200mA
2N3946 PN3946	TO-92 (EBC)	60V	40V	6V	10nA 40V (CEX)	30 0.1mA 1V 45 1.0mA 1V 50 150 10mA 1V 20 50mA 1V	0.2V 0.9V 10mA 0.3V 1.0V 50mA	4 pF	250MHz 10mA NF=5dB Max.	375ns	200mA
2N3947 PN3947	TO-92 (EBC)	60V	40V	6V	10nA 40V (CEX)	60 0.1mA 1V 90 1.0mA 1V 100 300 10mA 1V 40 50mA 1V	0.2V 0.9V 10mA 0.3V 1.0V 50mA	4 pF	300MHz 10mA NF=5dB Max.	450ns	200mA
2N4123	TO-92 (EBC)	40V	30V	5V	50nA 20V	50 150 2.0mA 1V 25 50mA 1V	0.3V 0.95V 50mA	4 pF	250MHz 10mA		200mA
2N4124	TO-92 (EBC)	30V	25V	5V	50nA 20V	120 360 2.0mA 1V 60 50mA 1V	0.3V 0.95V 50mA	4 pF	300MHz 10mA		200mA
2N4400	TO-92 (EBC)	60V	40V	6V	10nA 35V (CEX)	20 1.0mA 1V 40 10mA 1V 50 150 150mA 1V 20 500mA 2V	0.4V 0.95V 150mA 0.75V 1.2V 500mA	6.5pF	200MHz 20mA	255ns	600mA
2N4401	TO-92 (EBC)	60V	40V	6V	100nA 35V (CEX)	20 0.1mA 1V 40 1mA 1V 80 10mA 1V 100 300 150mA 1V 40 500mA 2V	0.4V 0.95V 150mA 0.75V 1.2V 500mA	6.5pF	250MHz 20mA	225ns	600mA