

● TO-92 Package/PNP Type

For General Purpose Small Signal Amplifiers

Part No.	Package	BV <sub>CB0</sub> Min.	BV <sub>CEO</sub> Min.	BV <sub>EBO</sub> Min.	I <sub>CB0</sub> Max. @V <sub>CB</sub>	h <sub>FE</sub> Min. Max. @I <sub>c</sub> & V <sub>CE</sub>	V <sub>CE(sat)</sub> Max. & V <sub>BE(sat)</sub> Max. @ I <sub>c</sub>	C <sub>ob</sub> Max.	f <sub>T</sub> Min. @ I <sub>c</sub>	f <sub>off</sub> /NF Max.	I <sub>c</sub> Max.	DIE NO.
2N3703	TO-92 (EBC)	50V	30V	5V	100nA 20V	30 150 50mA 5V	0.25V 1.0V 50mA (V <sub>BE</sub> (on) )	12pF	100MHz 50mA		200mA	A32
2N5087	TO-92 (EBC)	50V	50V	3V	100nA 40V	250 800 100 μA 5V 250 1.0mA 5V 250 10mA 5V	0.3V 10mA	6pF	40MHz 0.5mA	NF 2dB	200mA	A32
MPSA70	TO-92 (EBC)	40V	40V	4V	100nA 30V	40 400 5mA 10V	0.25V 10mA	6pF	125MHz 5mA		100mA	A32
RJE9015C	TO-92	-	50V	-	-	100 600	-	-	-	-	150mA	A32

For General Purpose Amplification and Switching

Part No.	Package	BV <sub>CB0</sub> Min.	BV <sub>CEO</sub> Min.	BV <sub>EBO</sub> Min.	I <sub>CB0</sub> Max. @V <sub>CB</sub>	h <sub>FE</sub> Min. Max. @I <sub>c</sub> & V <sub>CE</sub>	V <sub>CE(sat)</sub> Max. & V <sub>BE(sat)</sub> Max. @ I <sub>c</sub>	C <sub>ob</sub> Max.	f <sub>T</sub> Min. @ I <sub>c</sub>	f <sub>off</sub> Max.	I <sub>c</sub> Max.	DIE NO.
PN2907A	TO-92 (EBC)	60V	60V	5V	100nA 50V	75 0.1mA 10V 100 1.0mA 10V 100 300 10mA 10V 100 150mA 10V 50 500mA 10V	0.4V 1.3V 150mA 1.6V 2.6V 500mA	8pF	200MHz 50mA	180ns	600mA	A31
2N3906	TO-92 (EBC)	40V	40V	-5V	50nA 30V (CES)	60 0.1mA 1V 80 1.0mA 1V 150 300 10mA 1V 60 50mA 1V 30 100mA 1V	0.25V 0.85V 10mA 0.4V 0.95V 50mA	4.5pF	250MHz 10mA	300ns	200mA	A38
2N4403	TO-92 (EBC)	40V	40V	5V	100nA 35V	30 0.1mA 1V 60 1mA 1V 100 10mA 1V 100 300 150mA 2V 20 500mA 2V	0.4V 0.95V 150mA 0.75V 1.3V 500mA	8.5pF	200MHz 20mA	255ns	600mA	A31
MPS6534	TO-92 (EBC)	40V	40V	4V	100nA 30V	60 10mA 1V 90 270 100mA 1V 50 500mA 10V	0.5V 1.0V 100mA	8pF	260MHz Typ.		600mA	A31

For Medium Power Amplification

Part No.	Package	BV <sub>CB0</sub> Min.	BV <sub>CEO</sub> Min.	BV <sub>EBO</sub> Min.	I <sub>CB0</sub> Max. @V <sub>CB</sub>	h <sub>FE</sub> Min. Max. @I <sub>c</sub> & V <sub>CE</sub>	V <sub>CE(sat)</sub> Max. & V <sub>BE(sat)</sub> Max. @ I <sub>c</sub>	C <sub>ob</sub> Max.	f <sub>T</sub> Min. @ I <sub>c</sub>	f <sub>off</sub> Max.	I <sub>c</sub> Max.	DIE NO.
MPSA56	TO-92 (EBC)	80V	80V	4V	100nA 80V	50 10mA 1V 50 100mA 1V	0.25V 1.2V (V <sub>BE</sub> (on) ) 100mA		50MHz 100mA		500mA	B13
2N5401	TO-92 (EBC)	160V	150V	5V	50nA	56 270 10mA 5V	0.2V 1.0V 1mA	6pF	50MHz		600mA	A329

Darlington Pair Type

Part No.	Package	BV <sub>CB0</sub> Min.	BV <sub>CEO</sub> Min.	BV <sub>EBO</sub> Min.	I <sub>CB0</sub> Max. @V <sub>CB</sub>	h <sub>FE</sub> Min. Max. @I <sub>c</sub> & V <sub>CE</sub>	V <sub>CE(sat)</sub> Max. & V <sub>BE(sat)</sub> Max. @ I <sub>c</sub>	C <sub>ob</sub> Max.	f <sub>T</sub> Min. @ I <sub>c</sub>	f <sub>off</sub> /NF Max.	I <sub>c</sub> Max.	DIE NO.
MPSA63	TO-92 (EBC)	30V	30V (CES)	10V	100nA 30V	5K 10mA 5V 10K 100mA 5V	1.5V 100mA	7pF	125MHz 10mA		500mA	B25
MPSA64	TO-92 (EBC)	30V	30V (CES)	10V	100nA 30V	10K 10mA 5V 20K 100mA 5V	1.5V 100mA	7pF	125MHz 10mA		500mA	B25

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