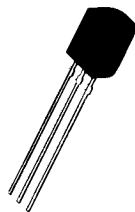
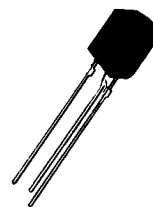


# Small Signal Transistors pnp

TO-92



TO-92<sup>†</sup>



TYPE NO. PNP	Maximum Ratings					Electrical Characteristics @ T <sub>A</sub> = 25°C							CASE
	P <sub>D</sub> @ T <sub>A</sub> = 25°C	I <sub>C</sub>	BV <sub>CB0</sub>	LV <sub>CEO</sub>	BV <sub>EB0</sub>	h <sub>FE</sub> @ V <sub>CE</sub> @ I <sub>C</sub> min./max.	V <sub>CE(sat)</sub> @ I <sub>C</sub> /I <sub>B</sub> max.	C <sub>ob</sub> max.	f <sub>T</sub> @ I <sub>C</sub> min.	NF@ f			
										max.			
ME 0411	200mW	100mA	60V	45V	6V	100/ 300 @ 5V @ 1.00mA	0.25V @ 10/0.5mA	5.0pF	100MHz @ 1.0mA	6dB	1kHz	TO-106	
ME 0412	200mW	100mA	60V	45V	6V	200/ 600 @ 5V @ 1.00mA	0.25V @ 10/0.5mA	5.0pF	100MHz @ 1.0mA	6dB	1kHz	TO-106	
ME 0413	200mW	100mA	40V	25V	5V	60/ — @ 5V @ 1.00mA	0.50V @ 10/0.5mA	5.0pF	100MHz @ 1.0mA	6dB	1kHz	TO-106	
ME 0414	200mW	100mA	25V	25V	4V	50/ 500 @ 5V @ 1.00mA	0.30V @ 1/0.1mA	9.0pF	100MHz @ 1.0mA	4dB	1kHz	TO-106	
ME 0475	200mW	100mA	75V	75V	4V	20/ — @ 10V @ 10.00mA	—	6.0pF	60MHz @ 10.0mA	—	—	TO-106	
MA 0411	300mW	100mA	60V	45V	6V	100/ 300 @ 5V @ 1.00mA	0.25V @ 10/0.5mA	3.0pF	100MHz @ 1.0mA	6dB	1kHz	TO-18	
MA 0412	300mW	100mA	60V	45V	6V	200/ 600 @ 5V @ 1.00mA	0.25V @ 10/0.5mA	3.0pF	100MHz @ 1.0mA	6dB	1kHz	TO-18	
MA 0413	300mW	100mA	40V	25V	5V	60/ — @ 5V @ 1.00mA	0.50V @ 10/0.5mA	3.0pF	100MHz @ 1.0mA	6dB	1kHz	TO-18	
MA 0414	300mW	100mA	25V	25V	4V	50/ 500 @ 5V @ 1.00mA	0.30V @ 1/0.1mA	3.0pF	100MHz @ 1.0mA	4dB	1kHz	TO-18	
2N 3547	360mW	100mA	60V	60V	6V	100/ 500 @ 5V @ 1.00mA	1.00V @ 10/1.0mA	8.0pF	45MHz @ 1.0mA	5dB	WB	TO-18	
2N 3548	400mW	100mA	60V	45V	6V	100/ 300 @ 5V @ 0.01mA	1.00V @ 10/1.0mA	8.0pF	60MHz @ 1.0mA	4dB	WB	TO-18	
2N 3549	400mW	100mA	60V	60V	6V	100/ 500 @ 5V @ 0.01mA	1.00V @ 10/1.0mA	8.0pF	60MHz @ 1.0mA	4dB	WB	TO-18	
2N 3962	360mW	200mA	60V	60V	6V	100/ 450 @ 5V @ 1.00mA	0.40V @ 50/5.0mA	6.0pF	40MHz @ 0.5mA	3dB	1kHz	TO-18	
2N 3963	360mW	200mA	80V	80V	6V	100/ 450 @ 5V @ 1.00mA	0.40V @ 50/5.0mA	6.0pF	40MHz @ 0.5mA	3dB	1kHz	TO-18	
2N 3964	360mW	200mA	45V	45V	6V	250/ 600 @ 5V @ 1.00mA	0.40V @ 50/5.0mA	6.0pF	40MHz @ 0.5mA	2dB	1kHz	TO-18	
2N 3965	360mW	200mA	60V	60V	6V	250/ 600 @ 5V @ 1.00mA	0.40V @ 50/5.0mA	6.0pF	40MHz @ 0.5mA	2dB	1kHz	TO-18	
2N 4248	200mW	—	45V	40V	5V	50/ — @ 5V @ 0.10mA	0.25V @ 10/1.0mA	6.0pF	40MHz @ 0.5mA	3dB	1kHz	TO-106	
2N 4249	200mW	—	60V	60V	5V	100/ 300 @ 5V @ 0.10mA	0.25V @ 10/1.0mA	6.0pF	40MHz @ 0.5mA	3dB	1kHz	TO-106	
2N 4250	200mW	—	40V	40V	5V	250/ 700 @ 5V @ 0.10mA	0.25V @ 10/1.0mA	6.0pF	50MHz @ 0.5mA	2dB	WB	TO-106	
BC 153	200mW	100mA	40V	40V	5V	50/ — @ 5V @ 10.00mA	0.25V @ 10/0.5mA	6.0pF	—	—	—	TO-106	
BC 154	200mW	100mA	40V	40V	5V	160/ — @ 5V @ 10.00mA	0.25V @ 10/0.5mA	6.0pF	—	2.5dB	1kHz	TO-106	
BC 177	300mW	100mA	50V	45V	5V	70/ 460 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-18	
BC 177A	300mW	100mA	50V	45V	5V	120/ 220 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-18	
BC 177B	300mW	100mA	50V	45V	5V	180/ 460 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-18	
BC 177C	300mW	100mA	50V	45V	5V	380/ 800 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-18	
BC 178	300mW	100mA	30V	25V	5V	70/ 460 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-18	
BC 178A	300mW	100mA	30V	25V	5V	120/ 220 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-18	
BC 178B	300mW	100mA	30V	25V	5V	180/ 460 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-18	
BC 178C	300mW	100mA	30V	25V	5V	380/ 800 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-18	
BC 179	300mW	100mA	25V	20V	5V	120/ 800 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	4dB	1kHz	TO-18	
BC 179A	300mW	100mA	25V	20V	5V	120/ 220 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	4dB	1kHz	TO-18	
BC 179B	300mW	100mA	25V	20V	5V	180/ 460 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	4dB	1kHz	TO-18	
BC 179C	300mW	100mA	25V	20V	5V	380/ 800 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	6.0pF	100MHz @ 10.0mA	4dB	1kHz	TO-18	
BC 204	200mW	100mA	50V	45V	5V	50/ 450 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	4.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-106	
BC 204A	200mW	100mA	50V	45V	5V	110/ 220 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	4.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-106	
BC 204B	200mW	100mA	50V	45V	5V	200/ 450 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	4.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-106	
BC 204VI	200mW	100mA	50V	45V	5V	50/ 120 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	4.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-106	
BC 205	200mW	100mA	25V	20V	5V	50/ 450 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	4.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-106	
BC 205A	200mW	100mA	25V	20V	5V	110/ 220 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	4.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-106	
BC 205B	200mW	100mA	25V	20V	5V	200/ 450 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	4.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-106	
BC 206	200mW	100mA	25V	20V	5V	110/ 450 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	4.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-106	
BC 206A	200mW	100mA	25V	20V	5V	110/ 220 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	4.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-106	
BC 206B	200mW	100mA	25V	20V	5V	200/ 450 @ 5V @ 2.00mA	0.30V @ 10/0.5mA	4.0pF	100MHz @ 10.0mA	10dB	1kHz	TO-106	
BC 212L	300mW	200mA	60V	50V	5V	60/ 300 @ 5V @ 2.00mA	0.25V @ 10/0.5mA	10.0pF	200MHz @ 10.0mA	10dB	1kHz	TO-92B	
BC 212K	300mW	200mA	60V	50V	5V	60/ 300 @ 5V @ 2.00mA	0.25V @ 10/0.5mA	10.0pF	200MHz @ 10.0mA	10dB	1kHz	TO-92F <sup>†</sup>	
BC 212LA	300mW	200mA	60V	50V	5V	100/ 300 @ 5V @ 2.00mA	0.25V @ 10/0.5mA	10.0pF	200MHz @ 10.0mA	10dB	1kHz	TO-92B	
BC 212KA	300mW	200mA	60V	50V	5V	100/ 300 @ 5V @ 2.00mA	0.25V @ 10/0.5mA	10.0pF	200MHz @ 10.0mA	10dB	1kHz	TO-92F <sup>†</sup>	
BC 212LB	300mW	200mA	60V	50V	5V	200/ 400 @ 5V @ 2.00mA	0.25V @ 10/0.5mA	10.0pF	200MHz @ 10.0mA	10dB	1kHz	TO-92B	
BC 212KB	300mW	200mA	60V	50V	5V	200/ 400 @ 5V @ 2.00mA	0.25V @ 10/0.5mA	10.0pF	200MHz @ 10.0mA	10dB	1kHz	TO-92F <sup>†</sup>	
BC 213L	300mW	200mA	45V	30V	5V	80/ 400 @ 5V @ 2.00mA	0.25V @ 10/0.5mA	10.0pF	200MHz @ 10.0mA	10dB	1kHz	TO-92B	

<sup>†</sup>Leads preformed to spacings of TO-18

WB = Wide Band