

Lead Mounted Transistors

NPN Transistors/TO-92

Type Number	V _{CEO}	h _{FE} @ V _{CE} /I _C		V _{CE SAT} @ I _C /I _B		f _T @ V _{CE} /I _C		C _{OB} @ V _{CB}		Pin Diagram See Page 45
	Volts		V/mA	max.V	mA/mA	MHz	V/mA	max pF	V	
2N4124	25	120-360	1/2	0.30	50/5	300	20/10	4.0	5	Fig. 1
2N5172	25	100-750	10/10	0.25	10/1	—	—	10	10	Fig. 3
2N5088	30	350-1400	5/1	0.50	10/1	—	—	4.0	10	Fig. 1
PN2222A	40	100-300	10/150	1.00	500/50	min. 300	20/20	8.0	10	Fig. 1
2N3904	40	100-300	1/10	0.30	50/5	min. 300	20/10	4.0	5	Fig. 1
2N4401	40	100-300	1/150	0.75	500/50	min. 250	10/20	6.5	5	Fig. 1
MPSA05/ITTA05	60	min. 50	1/100	0.25	100/10	min. 100	2/10	—	—	Fig. 1
MPSA06/ITTA06	80	min. 50	1/100	0.25	100/10	min. 100	2/10	—	—	Fig. 1
2N5551	160	80-250	5/10	0.25	50/5	min. 100	10/10	6.0	10	Fig. 1
MPSA42	300	40 min.	10/30	0.50	20/2	min. 50	20/10	4.0	20	Fig. 1

NPN Transistors - European Types/TO-92

Type Number	V _{CEO}	h _{FE} @ V _{CE} /I _C		V _{CE SAT} @ I _C /I _B		f _T @ V _{CE} /I _C		C _{OB} @ V _{CB}		Pin Diagram See Page 45
	Volts		V/mA	max.V	mA/mA	MHz	V/mA	max pF	V	
BC337	45	100-630	1/100	0.7	500/50	100	5/10	typ. 12	10	Fig. 2
BC337-16	45	100-250	1/100	0.7	500/50	100	5/10	typ. 12	10	Fig. 2
BC337-25	45	160-400	1/100	0.7	500/50	100	5/10	typ. 12	10	Fig. 2
BC337-40	45	250-630	1/100	0.7	500/50	100	5/10	typ. 12	10	Fig. 2
BC547A	45	110-220	5/2	0.6	100/5	300	5/10	6.0	10	Fig. 2
BC547B	45	200-450	5/2	0.6	100/5	300	5/10	6.0	10	Fig. 2
BC547C	45	420-800	5/2	0.6	100/5	300	5/10	6.0	10	Fig. 2
BC548A	30	110-220	5/2	0.6	100/5	300	5/10	6.0	10	Fig. 2
BC548B	30	200-450	5/2	0.6	100/5	300	5/10	6.0	10	Fig. 2
BC548C	30	420-800	5/2	0.6	100/5	300	5/10	6.0	10	Fig. 2

NPN Darlington Amplifiers/TO-92

Type Number	V _{CEO}	h _{FE} @ V _{CE} /I _C		V _{CE SAT} @ I _C /I _B		f _T @ V _{CE} /I _C		V _{BE(ON)} @ V _{CE} /I _C		Pin Diagram See Page 45
	Volts		V/mA	max.V	mA/mA	MHz	V/mA	max V	V/mA	
MPSA13	30	10000	5/100	1.5	100/0.1	125	5/10	2.0	5/100	Fig. 1
MPSA14	30	20000	5/100	1.5	100/0.1	125	5/10	2.0	5/100	Fig. 1

PNP Transistors/TO-92

Type Number	V _{CEO}	h _{FE} @ V _{CE} /I _C		V _{CE SAT} @ I _C /I _B		f _T @ V _{CE} /I _C		C _{OB} @ V _{CB}		Pin Diagram See Page 45
	Volts		V/mA	max.V	mA/mA	MHz	V/mA	max pF	V	
2N4126	25	120-480	10/2	0.40	50/5	min. 250	20/10	10	0.5	Fig. 1
PN2907A	60	100-300	10/150	1.60	500/50	min. 200	20/50	8	10	Fig. 1
2N3906	40	100-300	1/10	0.40	50/5	min. 250	20/10	4.5	5	Fig. 1
2N4403	40	100-300	1/150	0.75	500/50	min. 200	10/20	8.5	5	Fig. 1
MPSA55/ITTA55	60	min. 50	1/100	0.25	100/10	min. 100	2/10	—	—	Fig. 1
MPSA56/ITTA56	80	min. 50	1/100	0.25	100/10	min. 100	2/10	—	—	Fig. 1
2N5401	150	40-200	10/1	0.20	10/1	min. 100	10/10	6.0	10	Fig. 1
MPSA92	300	min. 40	10/10	0.50	20/2	min. 50	20/10	8.0	20	Fig. 1

OPERATING/STORAGE TEMPERATURE -55°C to +150°C