

# Small Signal Transistors

## TO-92 Case



TO-92

TYPE NO.	FAMILY	LEAD CODE	V <sub>CB0</sub>	V <sub>CE0</sub>	V <sub>EB0</sub>	I <sub>CB0</sub> @ V <sub>CB0</sub>	h <sub>FE</sub>	h <sub>FE</sub> (1kHz)	V <sub>CE</sub>	I <sub>C</sub>	V <sub>CE(SAT)</sub> @ I <sub>C</sub>	C <sub>ob</sub>	f <sub>T</sub>	NF	t <sub>off</sub>		
			(V)	(V)	(V)	(mA)			(V)	(mA)	(V)	(pF)	(MHz)	(dB)			
			MIN	*V <sub>CES</sub> MIN	MIN	*I <sub>CES</sub> *I <sub>CEV</sub> MAX			MIN	MAX	MAX	*C <sub>rb</sub> MAX	*TYP MIN	MAX	MAX		
2N2712	NPN AMPL/SWITCH	ECB	18	18	5.0	500	18	75	225	---	---	---	---	2.8	---		
2N2714	NPN AMPL/SWITCH	ECB	18	18	5.0	100	18	75	225	0.30	50	1.20	50	---	---		
2N2923	NPN LOW NOISE	ECB	25	25	5.0	100	25	90*	180*	---	---	---	10	160*	---		
2N2924	NPN LOW NOISE	ECB	25	25	5.0	100	25	150*	300*	---	---	---	10	160*	---		
2N2925	NPN LOW NOISE	ECB	25	25	5.0	100	25	235*	470*	---	---	---	10	160*	2.8		
2N2926	NPN LOW NOISE	ECB	25	25	5.0	500	18	35*	470*	---	---	---	10	120*	2.8		
2N3391A	NPN LOW NOISE	ECB	25	25	5.0	100	25	250	500	4.50	2.0	---	10	120*	5.0		
2N3392	NPN LOW NOISE	ECB	25	25	5.0	100	25	150	300	4.50	2.0	---	10	120*	---		
2N3393	NPN LOW NOISE	ECB	25	25	5.0	100	25	90	180	4.50	2.0	---	10	120*	---		
2N3395	NPN LOW NOISE	ECB	25	25	5.0	100	25	150	500	4.50	2.0	---	10	---	---		
2N3396	NPN LOW NOISE	ECB	25	25	5.0	100	25	90	500	4.50	2.0	---	10	---	---		
2N3397	NPN LOW NOISE	ECB	25	25	5.0	100	25	55	500	4.50	2.0	---	10	---	---		
2N3398	NPN LOW NOISE	ECB	25	25	5.0	100	25	55	800	4.50	2.0	---	10	---	---		
2N3415	NPN LOW NOISE	ECB	25	25	5.0	100	25	180	540	4.50	2.0	0.30	50	---	---		
2N3416	NPN LOW NOISE	ECB	50	50	5.0	100	25	75	225	4.50	2.0	0.30	50	---	---		
2N3417	NPN LOW NOISE	ECB	50	50	5.0	100	50	180	540	4.50	2.0	0.30	50	---	---		
2N3702	PNP AMPL/SWITCH	ECB	40	25	5.0	100	20	60	300	5.0	0.05	0.25	50	100	---		
2N3703	PNP AMPL/SWITCH	ECB	50	30	5.0	100	20	30	150	5.0	0.05	0.25	50	100	---		
2N3704	NPN AMPL/SWITCH	ECB	50	30	5.0	100	20	100	300	2.0	50	0.60	100	100	---		
2N3705	NPN AMPL/SWITCH	ECB	50	30	5.0	100	20	50	150	2.0	50	0.80	100	100	---		
2N3706	NPN AMPL/SWITCH	ECB	40	20	5.0	100	20	30	600	2.0	50	1.0	100	100	---		
2N3707	NPN LOW NOISE	ECB	30	30	6.0	100	20	100	400	5.0	1.0	1.0	10	---	5.0		
2N3708	NPN LOW NOISE	ECB	30	30	6.0	100	20	45	660	5.0	1.0	1.0	10	---	5.0		
2N3709	NPN LOW NOISE	ECB	30	30	6.0	100	20	45	165	5.0	1.0	1.0	10	---	5.0		
2N3710	NPN LOW NOISE	ECB	30	30	6.0	100	20	90	330	5.0	1.0	1.0	10	---	5.0		
2N3711	NPN LOW NOISE	ECB	30	30	6.0	100	20	180	660	5.0	1.0	1.0	10	---	5.0		
2N3859A	NPN LOW NOISE	ECB	60	60	6.0	50	60	100	200	4.50	2.0	0.125	10	4.0	5.0		
2N3860	NPN LOW NOISE	ECB	30	30	4.0	50	30	150	300	4.50	2.0	0.125	10	90	---		
2N3903	NPN AMPL/SWITCH	EBC	60	40	6.0	50**	30	50	150	1.0	10	0.30	50	4.0	250	6.0	225
2N3904	NPN AMPL/SWITCH	EBC	60	40	6.0	50**	30	100	300	1.0	10	0.30	50	4.0	300	5.0	250
2N3905	PNP AMPL/SWITCH	EBC	40	40	5.0	50**	30	50	150	1.0	10	0.40	50	4.5	200	5.0	260
2N3906	PNP AMPL/SWITCH	EBC	40	40	5.0	50**	30	100	300	1.0	10	0.40	50	4.5	250	4.0	300
2N4058	PNP LOW NOISE	ECB	30	30	6.0	100	20	100	400	5.0	0.10	0.70	10	---	5.0	---	
2N4123	NPN AMPL/SWITCH	EBC	40	30	5.0	50	20	50	150	1.0	2.0	0.30	50	4.0	250	6.0	---
2N4124	NPN AMPL/SWITCH	EBC	30	25	5.0	50	20	120	360	1.0	2.0	0.30	50	4.0	300	5.0	---
2N4125	PNP AMPL/SWITCH	EBC	30	30	4.0	50	20	50	150	1.0	2.0	0.40	50	4.5	200	5.0	---
2N4126	PNP AMPL/SWITCH	EBC	25	25	4.0	50	20	120	360	1.0	2.0	0.40	50	4.5	250	4.0	---
2N4264	NPN SAT SWITCH	EBC	30	15	6.0	100**	12	40	160	1.0	10	0.35	100	4.0	350	---	35
2N4287	NPN LOW NOISE	ECB	45	45	7.0	10	30	150	600	5.0	1.0	0.35	1.0	6.0	40	5.0	---
2N4289	PNP LOW NOISE	ECB	60	45	7.0	10	45	150	600	0.35	1.0	0.80	1.0	8.0	40	4.0	---
2N4400	NPN AMPL/SWITCH	EBC	60	40	6.0	100*	35	50	150	1.0	150	0.75	500	6.5	200	---	255

Devices are available lead formed. See pages 217 and 218 for details.