



**THE DATASHEET OF
2N3416 PBFREE**



Small Signal Transistors

TO-92 Case



TYPE NO.	DESCRIPTION	LEAD CODE	V _{CBO}	V _{CEO}	V _{EBO}	I _{CBO} @	V _{CB}	h _{FE}		@ V _{CE}	@ I _C	V _{CE (SAT)} @ I _C		C _{ob}	f _T	NF	t _{off}
			(V)	(V)	(V)	(nA)	(V)	MIN	MAX	(V)	(mA)	(V)	(mA)	(pF)	(MHz)	(dB)	
			MIN	*V _{CES} MIN	MIN	*I _{CES} MAX *I _{CEV} MAX									*C _{rb} MAX	*TYP MIN	MAX
2N2712	NPN AMPL/SWITCH	ECB	18	18	5.0	500	18	75	250	--	--	--	--	12	--	2.8	--
2N2714	NPN AMPL/SWITCH	ECB	18	18	5.0	100	18	75	250	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	12	100	--	--
2N3703	PNP AMPL/SWITCH	ECB	50	30	5.0	100	20	30	150	5.0	50	0.25	50	12	100	--	--
2N3704	NPN AMPL/SWITCH	ECB	50	30	5.0	100	20	100	300	2.0	50	0.60	100	12	100	--	--
2N3705	NPN AMPL/SWITCH	ECB	50	30	5.0	100	20	50	150	2.0	50	0.80	100	12	100	--	--
2N3706	NPN AMPL/SWITCH	ECB	40	20	5.0	100	20	30	600	2.0	50	1.0	100	12	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	4.0	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		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

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Devices are available lead formed.
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See pages 230 thru 235 for details.

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