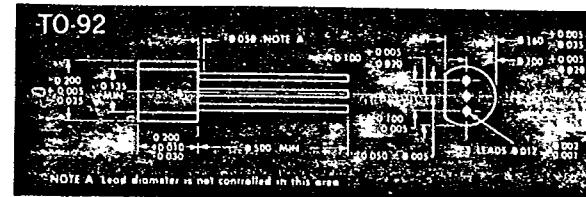


Semitronics Corp.

SEMICONDUCTORS

TO-92 transistors



Device	Type	Package	Maximum Ratings				Electrical Characteristics @ 25 °C											
			P _D Ambient mW	V _{CB} Volts	V _{CE} Volts	V _{EB} Volts	h _{FE} Min/Max	V _{CE} (Sat) @ I _C /I _B		C _{cb} pF Max	C _{ob} pF Max	f _t MHz Min	t _{ON} ns Max	t _{OFF} ns Max	Power Gain @ f		NF @ f	
								Volts	mA/mA						dB Min	MHz	dB Max	MHz
2N3903	NPN	TO-92	310	60	40	6	50/150	0.3	50/5	-	4	250	-	-	-	-	6	15.7kHz
2N3904	NPN	TO-92	310	60	40	6	100/300	0.3	50/5	-	4	300	-	-	-	-	5	15.7kHz
2N3905	PNP	TO-92	310	40	40	5	50/150	0.25	10/1	-	4.5	200	-	-	-	-	5	15.7kHz
2N3906	PNP	TO-92	310	40	40	5	100/300	0.25	10/1	-	4.5	250	-	-	-	-	4	15.7kHz
2N4123	NPN	TO-92	310	40	30	5	50/150	0.3	50/5	-	4	250	-	-	-	-	6	15.7kHz
2N4124	NPN	TO-92	310	30	25	5	120/360	0.3	50/5	-	4	250	-	-	-	-	5	15.7kHz
2N4125	PNP	TO-92	310	30	30	4	50/150	0.4	50/5	-	4.5	200	-	-	-	-	5	15.7kHz
2N4126	PNP	TO-92	310	25	25	4	120/360	0.4	50/5	-	4.5	250	-	-	-	-	4	15.7kHz
2N4264	NPN	TO-92	310	30	15	6	40/160	0.22	10/1	-	4	300	25	35	-	-	-	-
2N4265	NPN	TO-92	310	30	12	6	100/400	0.35	100/10	-	4	300	25	35	-	-	-	-
2N4400	NPN	TO-92	310	60	40	6	50/150	0.4	150/15	6.5	-	200	-	-	-	-	-	-
2N4401	NPN	TO-92	310	60	40	6	100/300	0.4	150/5	6.5	-	250	-	-	-	-	-	-
2N4402	PNP	TO-92	310	40	40	5	50/150	0.4	150/15	8.5	-	150	-	-	-	-	-	-
2N4403	PNP	TO-92	310	40	40	5	100/300	0.4	150/15	8.5	-	200	-	-	-	-	-	-
2N4409	NPN	TO-92	310	80	50	5	60/-	0.2	1.0/0.1	12	-	60	-	-	-	-	-	-
2N4410	NPN	TO-92	310	120	80	5	60/-	0.2	1.0/0.1	12	-	60	-	-	-	-	-	-
2N5086	PNP	TO-92	310	50	50	3	150/500	0.3	10/1	-	4	40	-	-	-	-	3	15.7kHz
2N5087	PNP	TO-92	310	50	50	3	250/800	0.3	10/1	-	4	40	-	-	-	-	2	15.7kHz
2N5088	NPN	TO-92	310	35	30	4.5	300/900	0.5	10/1	4	-	50	-	-	-	-	3	15.7kHz
2N5089	NPN	TO-92	310	30	25	4.5	400/1200	0.5	10/1	4	-	50	-	-	-	-	2	15.7kHz
2N5209	NPN	TO-92	310	50	50	4.5	100/300	0.7	10/1	4	-	30	-	-	-	-	3	15.7kHz
2N5210	NPN	TO-92	310	50	50	4.5	200/600	0.7	10/1	4	-	30	-	-	-	-	3	15.7kHz
2N5219	NPN	TO-92	310	20	15	3	35/500	0.4	10/1	4	-	150	-	-	-	-	-	1.0kHz
2N5220	NPN	TO-92	310	15	15	3	30/600	0.5	150/15	10	-	100	-	-	-	-	-	-
2N5221	PNP	TO-92	310	15	15	3	30/600	0.5	150/15	15	-	100	-	-	-	-	-	-
2N5222	NPN	TO-92	310	20	15	2	20/1500	1.0	4/400	1.3	-	450	-	-	-	-	-	-
2N5223	NPN	TO-92	310	25	20	3	50/800	0.7	10/1	4	-	150	-	-	-	-	-	-
2N5224	NPN	TO-92	310	25	12	5	40/400	0.35	10/3	4	-	250	20	25	-	-	-	-
2N5225	NPN	TO-92	310	25	25	4	25/-	0.8	100/10	20	-	50	-	-	-	-	-	-
2N5226	PNP	TO-92	310	25	25	4	25/-	0.8	100/10	20	-	50	-	-	-	-	-	-
2N5227	PNP	TO-92	310	30	30	3	50/700	0.4	10/1	5	-	100	-	-	-	-	-	-
2N5228	PNP	TO-92	310	5	5	3	30/-	0.4	10/3	5	-	-	-	-	-	-	-	-
2N5447	PNP	TO-92	360	40	25	5	60/300	0.25	50/5	12	-	5	-	-	-	-	-	-
2N5449	NPN	TO-92	360	50	30	5	100/300	0.6	100/5	12	-	5	-	-	-	-	-	-
2N5550	NPN	TO-92	310	160	140	6	60/-	0.25	50/5	-	6	100	-	-	-	-	10	15.7kHz
2N5551	NPN	TO-92	310	180	160	6	60/-	0.2	50/5	-	6	100	-	-	-	-	8	15.7kHz
2N5822	NPN	TO-92	500	70	60	5	100/200	0.75	500/50	15	-	120	-	-	-	-	-	-
2N5823	PNP	TO-92	500	70	60	5	100/200	0.75	500/50	15	-	120	-	-	-	-	-	-
2N5845	NPN	TO-92	500	50	40	6	25/-	0.6	500/50	-	9	200	40	60	-	-	-	-
2N6013	PNP	TO-92	500	50	40	5	250/500	0.6	300/30	15	-	-	-	-	-	-	20	30mHz
2N6014	NPN	TO-92	500	70	60	5	100/300	0.25	300/30	10	-	-	-	-	-	-	21	30mHz
MPS-A05	NPN	TO-92	500	60	60	4	50/-	0.25	100/10	-	6	50	-	-	-	-	-	-
MPS-A06	NPN	TO-92	500	80	80	4	50/-	0.25	100/10	-	6	50	-	-	-	-	-	-
MPS-A20	NPN	TO-92	300	-	40	4	40/-	0.25	10/1	-	4	125	-	-	-	-	-	-
MPS-A42	NPN	TO-92	625	300	300	6	40/-	0.5	20/2	3	-	50	-	-	-	-	-	-
MPS-A55	PNP	TO-92	500	60	60	4	50/-	0.25	100/10	-	6.5	60	-	-	-	-	-	-
MPS-A56	PNP	TO-92	500	80	80	4	50/-	0.25	100/10	-	6.5	50	-	-	-	-	-	-
MPS-A70	PNP	TO-92	300	-	40	4	40/400	0.25	10/1	4	-	125	-	-	-	-	-	-
MPS-A92	PNP	TO-92	625	300	300	6	40/-	0.5	20/2	6	-	50	-	-	-	-	-	-
MPS-918	NPN	TO-92	310	30	15	3	20/-	0.4	10/1	-	3	-	-	-	-	-	6	60
MPS-2222	NPN	TO-92	625	60	30	5	100/300	0.4	150/15	-	8	250	-	-	-	-	-	-
MPS-2222A	NPN	TO-92	625	75	40	6	100/300	0.3	150/15	-	8	300	-	-	-	-	-	-
MPS-2711	NPN	TO-92	310	18	18	5	30/90	-	-	-	4	-	-	-	-	-	-	-
MPS-2712	NPN	TO-92	310	18	18	5	75/225	-	-	-	4	-	-	-	-	-	-	-
MPS-2713	NPN	TO-92	310	18	18	5	30/90	0.3	50/3	-	2.5†	250†	-	6†	9†	-	-	-
MPS-2714	NPN	TO-92	310	18	18	5	75/225	0.3	50/3	-	2.5†	250†	-	6†	9†	-	-	-
MPS-2716	NPN	TO-92	310	18	18	5	75/225	-	-	-	3.5	-	-	-	-	-	-	-
MPS-2907	PNP	TO-92	625	60	40	5	100/300	1.6	500/50	-	8	200	-	-	-	-	-	-
MPS-2907A	PNP	TO-92	625	60	60	5	100/300	1.6	500/50	-	8	200	-	-	-	-	-	-
MPS-2923	NPN	TO-92	200	25	25	5	90/180	-	-	-	12.0	-	-	-	-	-	-	-

case outline drawings

