

1 SILICON TRANSISTORS

SMALL-SIGNAL TRANSISTORS

● Consumer electronic equipments

($T_a = 25^\circ\text{C}$)

Type No.	Application	Structure	Max. ratings						Electrical characteristics								Package outline	Remarks
			V_{CB0} (V)	V_{CE0} (V)	V_{EB0} (V)	I_C (mA)	P_C (mW)	T_J ($^\circ\text{C}$)	Bias			f_T (typ) (MHz)	C_{ob} (typ) (pF)	C_{orb} (typ) (ps)	I_{CBO} (max)			
									V_{CE} (V)	I_C (mA)	h_{FE}				Bias V_{CE} (V)	I_{CBO} (μA)		
2SA847A	LN-LVA	Si,PNP,E	-120	-120	-5	-50	200	+125	-6	-1	250 to 800	150	2.5	-	-70	-0.1	SC-43	$NV \leq 170\text{mV}$
2SA904A	LFA,LVA	Si,PNP,E	-120	-120	-5	-50	200	+125	-6	-1	250 to 800	150	2.5	-	-70	-0.1	SC-43	Complementary (2SC1914A)
2SA999	LVA	Si,PNP,E	-50	-50	-6	-200	300	+125	-6	-1	90 to 800	200	4.0	-	-50	-0.1	SC-43	Complementary (2SC2320)
2SA999L	LN-LVA	Si,PNP,E	-50	-50	-6	-200	300	+125	-6	-1	150 to 800	200	4.0	-	-50	-0.1	SC-43	$NV \leq 150\text{mV}$
2SA1115	LVA	Si,PNP,E	-50	-50	-6	-200	300	+125	-6	-1	90 to 800	200	4.0	-	-50	-0.1	Small 3Pin	Complementary (2SC2603)
2SA1282	LPA	Si,PNP,E	-20	-16	-6	-2A	900	+150	-4	-100	150 to 800	80	42	-	-16	-0.2	TO-92L	Complementary (2SC3242)
2SA1282A	LPA	Si,PNP,E	-20	-20	-6	-2A	900	+150	-4	-100	150 to 500	80	42	-	-16	-0.2	TO-92L	Complementary (2SC3242A)
2SA1283	LPA	Si,PNP,E	-60	-60	-6	-1A	900	+150	-4	-100	55 to 300	85	22	-	-50	-0.2	TO-92L	Complementary (2SC3243)
2SA1284	LPA	Si,PNP,E	-100	-100	-5	-500	900	+150	-10	-10	55 to 300	130	11	-	-50	-0.5	TO-92L	Complementary (2SC3244)
2SA1285	LVA	Si,PNP,E	-120	-120	-5	-100	900	+150	-10	-10	150 to 800	200	3.5	-	-100	-0.1	TO-92L	Complementary (2SC3245)
2SA1285A	LVA	Si,PNP,E	-150	-150	-5	-100	900	+150	-10	-10	150 to 500	200	3.5	-	-100	-0.1	TO-92L	Complementary (2SC3245A)
2SA1286	LPA	Si,PNP,E	-30	-20	-6	-1.5A	900	+150	-6	-500	400 to 800	90	40	-	-20	-0.1	TO-92L	Complementary (2SC3246)
2SA1287	LPA	Si,PNP,E	-50	-50	-6	-1A	900	+150	-6	-100	400 to 800	90	30	-	-40	-0.1	TO-92L	Complementary (2SC3247)
2SA1299	LN-LVA	Si,PNP,E	-50	-50	-6	-200	300	+125	-6	-1	150 to 800	200	4.0	-	-50	-0.1	Small 3Pin	$NV \leq 150\text{mV}$
2SA1398	LPA	Si,PNP,E	-25	-20	-4	-700	900	+150	-4	-100	150 to 800	180	-	-	-25	-1	TO-92L	Complementary (2SC3580)
2SA1399	LPA	Si,PNP,E	-55	-50	-4	-400	900	+150	-4	-100	90 to 500	150	-	-	-25	-1	TO-92L	Complementary (2SC3581)
2SA1630	LVA	Si,PNP,E	-50	-50	-6	-100	300	+125	-6	-1	120* to 820	200	2.5	-	-50	-0.5	Small 3Pin	Complementary (2SC4266)
2SA1993**	LVA	Si,PNP,E	-50	-50	-6	-200	300	+125	-6	-1	90 to 800	200	4.0	-	-50	-0.1	Small 3Pin	Frame type (for 2SA1115)
2SA1994**	LN-LVA	Si,PNP,E	-50	-50	-6	-200	300	+125	-6	-1	150 to 800	200	4.0	-	-50	-0.1	Small 3Pin	Frame type (for 2SA1299)
2SA1995**	LVA	Si,PNP,E	-50	-50	-6	-100	300	+125	-6	-1	120* to 820	200	2.5	-	-50	-0.5	Small 3Pin	Frame type (for 2SA1630)
2SB1035	LPA	Si,PNP,E	-30	-25	-4	-1A	900	+150	-1	-500	55 to 300	100	-	-	-25	-1	TO-92L	Complementary (2SD1447)
2SC710	FM,RF,CON IF	Si,NPN,E	30	25	4	30	200	+125	6	1	35 to 300	200	2	20	25	1	SC-43	
2SC738	FM,RF,CON IF	Si,NPN,E	25	12	4	20	150	+125	6	1	55 to 180	440	1.5	30	12	1	SC-43	
2SC763	FM,RF,CON	Si,NPN,E	25	12	3	20	100	+125	6	1	35 to 180	470	1.4	15	12	0.5	SC-43	
2SC1310	LVA,LN- LVA	Si,NPN,E	50	50	6	200	300	+125	6	1	150 to 800	200	2.5	-	50	0.1	Small 3Pin	$NV \leq 150\text{mV}$
2SC1708A	LN-LVA	Si,NPN,E	120	120	5	50	200	+125	6	1	250 to 800	150	1.8	-	100	0.1	SC-43	$NV \leq 170\text{mV}$
2SC1914A	LVA	Si,NPN,E	120	120	5	50	200	+125	6	1	250 to 800	150	1.8	-	100	0.1	SC-43	Complementary (2SA904A)
2SC2320	LVA	Si,NPN,E	50	50	6	200	300	+125	6	1	90 to 800	200	2.5	-	50	0.1	SC-43	Complementary (2SA999)
2SC2320L	LN-LVA	Si,NPN,E	50	50	6	200	300	+125	6	1	150 to 800	200	2.5	-	50	0.1	SC-43	$NV \leq 150\text{mV}$
2SC2603	LVA	Si,NPN,E	50	50	6	200	300	+125	6	1	90 to 800	200	2.5	-	50	0.1	Small 3Pin	Complementary (2SA1115)
2SC2724	FM,RF,CON IF	Si,NPN,E	30	25	4	30	200	+125	6	1	35 to 180	200	2.0	20	25	1	Small 3Pin	
2SC3242	LPA	Si,NPN,E	20	16	6	2A	900	+150	4	100	150 to 800	80	28	-	16	0.2	TO-92L	Complementary (2SA1282)
2SC3242A	LPA	Si,NPN,E	20	20	6	2A	900	+150	4	100	150 to 500	80	28	-	16	0.2	TO-92L	Complementary (2SA1282A)
2SC3243	LPA	Si,NPN,E	60	60	6	1A	900	+150	4	100	55 to 300	120	14	-	50	0.2	TO-92L	Complementary (2SA1283)
2SC3244	LPA	Si,NPN,E	100	100	5	500	900	+150	10	10	55 to 300	130	6.5	-	50	0.5	TO-92L	Complementary (2SA1284)
2SC3245	LVA	Si,NPN,E	120	120	5	100	900	+150	10	10	150 to 800	200	2.3	-	100	0.1	TO-92L	Complementary (2SA1285)
2SC3245A	LVA	Si,NPN,E	150	150	5	100	900	+150	10	10	150 to 500	200	2.3	-	100	0.1	TO-92L	Complementary (2SA1285A)

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