

Transistors, General

Type	Polarity	Material	P <sub>tot</sub> Max. (mW)	F <sub>T</sub> Typ. (MHz)	Absolute Max. Ratings				h <sub>FE</sub>			T <sub>j</sub> Max. (°C)	C <sub>OB</sub> Max. (pF)	Case Outline	Lead Info.	Manufacturer
					V <sub>CE0</sub> (V)	V <sub>CEO</sub> (V)	V <sub>EBO</sub> (V)	I <sub>C</sub> (mA)	Min.	at mA	Max.					
2N2193A	NPN	Si	800	50	80	50	8	1A	40	150	120	200	20	TO-5	08	F,N,u
2N2193B	NPN	Si	800	50	80	50	8	1A	40	150	120	200	20	TO-5	08	F
2N2194	NPN	Si	800	50	60	40	5	1A	20	150	60	200	20	TO-5	08	u
2N2194A	NPN	Si	800	50	60	40	5	1A	20	150	60	200	20	TO-5	08	u
2N2195	NPN	Si	600	50	45	25	5	1A	20	150	-	200	20	TO-5	08	N,u
2N2195A	NPN	Si	600	50	45	25	5	1A	20	150	-	200	20	TO-5	08	N,u
2N2199	PNP	Ge	75	120	-15	-	-	100	14	-	-	100	-	TO-9	56	Sp
2N2200	PNP	Ge	75	120	-15	-	-	100	14	-	-	100	-	TO-9	56	Sp
2N2205	NPN	Si	300	200	25	12	3	200	40	10	120	175	6	TO-18	05	F,SGS
2N2217	NPN	Si	800	250	60	30	5	500	20	150	60	175	8	TO-5	08	u'
2N2218	NPN	Si	800	300	60	30	5	800	40	150	120	175	8	TO-5	08	AEG,F,Fe,Mo,N,SGS,Sp,u
2N2218A	NPN	Si	800	300	75	40	6	800	40	150	120	175	8	TO-5	08	AEG,F,M,Mo,N,SGS,Sp,TI,u
2N2219	NPN	Si	800	350	60	30	5	800	100	150	300	175	8	TO-5	08	AEG,F,Fe,M,Mo,N,SGS,Sp,u
2N2219A	NPN	Si	800	350	75	40	6	800	100	150	300	175	8	TO-5	08	AEG,F,M,Mo,N,SGS,Sp,TI,u
2N2220	NPN	Si	800	300	75	40	6	800	100	150	300	175	8	TO-18	05	M,u
2N2221	NPN	Si	500	300	60	30	5	800	40	150	120	175	8	TO-18	05	AEG,F,Fe,M,Mo,N,SGS,Sp,u
2N2221A	NPN	Si	500	300	75	40	6	800	40	150	120	175	8	TO-18	05	AEG,F,ITT,M,Mo,SGS,Sp,TI
2N2222	NPN	Si	500	350	60	30	5	800	100	150	300	175	8	TO-18	05	AEG,F,Fe,ITT,M,Mo,N,SGS,Sp
2N2222A	NPN	Si	500	350	75	40	6	800	100	150	300	175	8	TO-18	05	AEG,F,ITT,M,Mo,N,SGS,Sp,TI
2N2242	NPN	Si	360	250	40	15	5	200	40	10	120	175	6	TO-18	05	F,Mo
2N2243	NPN	Si	800	50	120	80	7	1A	40	150	120	200	15	TO-5	08	N,u
2N2243A	NPN	Si	800	50	120	80	7	1A	40	150	120	200	15	TO-39	08	N,TI,u
2N2270	NPN	Si	1W	100	60	45	7	1A	50	150	200	200	15	TO-5	08	F,N,RCA,u
2N2282	PNP	Si	5W	2.5	-30	-30	-1.5	3A	30	500	75	110	-	TO-37	61	STC
2N2283	PNP	Si	5W	2.5	-60	-60	-1.5	3A	30	500	75	110	-	TO-37	61	STC
2N2284	PNP	Si	5W	2.5	-100	-100	-1.5	3A	30	500	75	110	-	TO-37	61	STC
2N2297	NPN	Si	800	60	80	35	7	1A	40	150	120	175	12	TO-5	08	F,M,SGS
2N2303	PNP	Si	600	60	50	35	5	500	75	150	200	175	45	TO-5	08	F
2N2360	PNP	Ge	60	-	-20	-20	-0.5	50	33	2	-	125	-	TO-12	62	Sp
2N2361	PNP	Ge	60	-	-20	-20	-0.5	50	33	2	-	125	-	TO-12	62	Sp
2N2362	PNP	Ge	60	-	-20	-20	-0.5	50	33	2	-	125	-	TO-12	62	Sp
2N2368	NPN	Si	360	400	40	15	4.5	500	20	10	60	175	4	TO-18	05	F,SGS,Mo,u
2N2369	NPN	Si	360	500	40	15	4.5	500	40	10	120	175	4	TO-18	05	F,M,Mo,N,SGS,Sp,u
2N2369A	NPN	Si	360	500	40	15	4.5	200	40	10	120	175	4	TO-18	05	F,M,Mo,N,SGS,u
2N2398	PNP	Ge	60	-	-20	-20	-0.5	50	33	2	-	125	-	TO-12	62	Sp
2N2399	PNP	Ge	60	-	-20	-20	-0.5	50	33	2	-	125	-	TO-12	62	Sp
2N2400	PNP	Ge	150	150	-42	-7	-	100	30	10	-	100	4	TO-18	05	Sp
2N2401	PNP	Ge	150	200	-12	-10	-	100	50	10	-	100	4	TO-18	05	Sp
2N2402	PNP	Ge	150	250	-15	-12	-	100	60	10	-	100	4	TO-18	05	Mo,Sp
2N2405	NPN	Si	1W	50	120	90	7	1A	60	150	200	200	15	TO-5	08	F,Fe,RCA
2N2411	PNP	Si	300	140	-25	-20	-5	100	20	10	60	200	5	TO-18	05	TI
2N2412	PNP	Si	300	140	-25	-20	-5	100	40	10	120	200	5	TO-18	05	TI
2N2451	PNP	Ge	25	-	-6	-6	-	50	25	10	-	100	6	TO-24	52	Sp
2N2475	NPN	Si	500	600	15	6	4	200	30	20	150	175	3	TO-18	05	SGS
2N2476	NPN	Si	600	250	60	20	5	500	20	150	-	200	10	TO-5	08	F
2N2477	NPN	Si	600	250	60	20	5	500	40	150	-	200	10	TO-5	08	Fe
2N2481	NPN	Si	360	300	40	15	5	200	40	10	120	200	5	TO-18	05	Fe
2N2483	NPN	Si	360	60	60	60	6	50	175	1	-	175	6	TO-18	05	F,SGS,Mo,Sp,TI,u
2N2484	NPN	Si	360	60	60	60	6	50	250	1	-	175	6	TO-18	05	F,Fe,Mo,N,SGS,Sp,TI,u
2N2487	PNP	Ge	60	360	-15	-10	-	100	20	10	-	100	3	TO-18	05	Sp
2N2488	PNP	Ge	60	360	-15	-10	-	100	20	50	-	100	3	TO-18	05	Sp
2N2489	PNP	Ge	60	300	-20	-15	-	100	20	10	-	100	3	TO-18	05	Sp
2N2490	PNP	Ge	170W	0.1	-70	-50	-40	12A	20	5A	40	110	-	TO-36	54	STC
2N2491	PNP	Ge	170W	0.19	-60	-40	-30	12A	35	5A	70	110	-	TO-36	54	STC
2N2492	PNP	Ge	170W	0.13	-80	-65	-60	12A	25	5A	50	110	-	TO-36	54	STC
2N2504	NPN	Si	500	45	60	45	6	25	150	1	600	150	6	TO-18	05	N
2N2509	NPN	Si	500	45	125	80	7	25	40	10	-	200	6	TO-18	05	F,N
2N2510	NPN	Si	360	45	100	65	7	50	150	10	500	175	6	TO-18	05	F,N,u
2N2511	NPN	Si	360	45	80	50	7	50	240	10	700	175	6	TO-18	05	N
2N2539	NPN	Si	500	250	60	30	5	800	50	50	150	200	8	TO-18	05	u