

**Silicon NPN Transistors**

Type	Con- struction	P <sub>c</sub> Max. (mW)	Typical f <sub>T</sub> or *f <sub>1</sub> † fab (MHz)	Absolute Max. Ratings				Typical h <sub>FE</sub> at (mA) (or *h <sub>fe</sub> )	Max ICBO at VCB		Application	Base Ref.
				V <sub>CB0</sub> (V)	V <sub>CE0</sub> (V)	V <sub>EB0</sub> (V)	I <sub>C</sub> (mA)		μA	V		

**JOSEPH LUCAS (ELECTRICAL) Ltd (Continued)**

*Current Types (Continued)*

DT1322	DJ	5W	2.5	100	60	12	1.5A	80 at 200	—	—	} General purpose	2
2N6263	DJ	20W	0.8	140	120	7	3A	60 at 500	—	—		51
DT3312	DJ	25W	0.8	90	55	7	4A	62 at 500	—	—		51
DT3313	DJ	25W	0.8	160	140	7	3A	62 at 500	—	—		51
2N3054	DJ	25W	0.8	90	55	7	4A	63 at 500	—	—		51
2N3441	DJ	25W	0.8	160	140	7	3A	63 at 500	—	—		51
2N6260	DJ	29W	—	50	40	5	3A	60 at 1.5A	—	—		51
DT4305	DJ	30W	3	400	300	5	5A	30 at 3A	—	—		1
DT4306	DJ	30W	3	500	375	5	5A	30 at 3A	—	—		1
DT6105	DJ	50W	5	400	300	5	10A	30 at 3A	—	—		5
DT6106	DJ	50W	5	500	375	5	10A	30 at 3A	—	—		5
DT4613	DJ	100W	—	160	140	7	10A	45 at 3A	—	—		1
DT4643	DJ	100W	—	160	140	7	16A	37 at 8A	—	—		1
DT4652	DJ	100W	—	100	60	7	20A	37 at 10A	—	—		1
DT4660	DJ	100W	—	50	40	5	30A	37 at 15A	—	—		1
2N4347	DJ	100W	—	140	120	7	5A	37 at 2A	—	—		1
2N5157	DJ	100W	—	700	500	6	3.5A	60 at 1A	—	—		1
DT4612	DJ	100W	0.8	100	60	7	15A	45 at 4A	—	—		1
DT4424	DJ	100W	2.5	—	500	6	3.5A	60 at 1A	—	—		1
DT4425	DJ	100W	2.5	—	500	6	3.5A	60 at 1A	—	—		1
DT4423	DJ	100W	4	400	400	5	3.5A	60 at 1A	—	—		1
2N3902	DJ	100W	4	—	400	5	3.5A	60 at 1A	—	—		1
2N6253	DJ	115W	—	55	45	5	15A	45 at 3A	—	—		1
2N3055	DJ	115W	0.8	100	60	7	15A	45 at 4A	—	—		1
2N3442	DJ	117W	—	160	140	7	10A	45 at 3A	—	—		1
2N4348	DJ	120W	—	140	120	7	10A	37 at 5A	—	—		1
2N5241	DJ	125W	—	400	400	5	5A	25 at 2.5A	—	—		1
DT4430	DJ	125W	4	400	400	5	5A	30 at 2.5A	—	—		1
DT4431	DJ	125W	4	400	400	5	5A	25 at 2.5A	—	—		1
2N3771	DJ	150W	—	50	40	5	30A	37 at 15A	—	—		1
2N3772	DJ	150W	—	100	60	7	20A	37 at 10A	—	—		1
2N3773	DJ	150W	—	160	140	7	16A	37 at 8A	—	—		1
2N6257	DJ	150W	—	50	40	5	20A	40 at 8A	—	—		1
2N2580	DJ	150W	—	400	400	5	10A	25 at 5A	—	—		5
2N2581	DJ	150W	—	400	400	5	10A	45 at 10A	—	—		5
2N2582	DJ	150W	—	500	500	5	10A	25 at 5A	—	—	5	
2N2583	DJ	150W	—	500	500	5	10A	45 at 10A	—	—	5	
2N3079	DJ	150W	—	200	200	5	5A	30 at 5A	—	—	5	
2N3080	DJ	150W	—	300	300	5	5A	30 at 5A	—	—	5	

† Minimum value

**MULLARD**

*Replacement Types*

BF167	PE	130	350	40	30	—	25	—	—	—	—	TV video I.F. stages	2
2N918	PE	200	900	30	15	3	50	20 at 3	0.01	15	—	U.H.F. amps/osc.	20
BF173	PE	260	550	40	25	4	—	—	—	—	—	TV video I.F. output	2
2N929	PE	300	50	45	45	5	30	225 at 10	0.01	45	—	Low noise amplifiers	2
2N930	PE	300	80	45	45	5	30	400 at 10	0.01	45	—	Amplifiers	2
BFW57	PE	300	80	80	60	6	500	115 at 100	0.5	80	} General purpose	43	
BFW58	PE	300	80	80	60	6	500	70 at 100	0.5	80		43	
BFW59	PE	300	80	40	35	6	500	115 at 100	0.5	40		43	
BFW60	PE	300	80	40	35	6	500	70 at 100	0.5	40		43	
BLY55	—	4W	250	40	20	4	1A	60 at 200	—	—	—	V.H.F. amplifiers	38
BU105	—	7W	—	1,500	—	6	2A	—	—	—	—	TV line deflection	1
BLY35	—	12W	250	66	33	4	7.5A	—	—	—	—	A.M. Class B	38
BLY36	—	12W	250	40	20	4	7.5A	—	—	—	—	F.M. Class B	38
BDY10	AD	130W	1	50	40	4	2A	30 at 2A	30	50	} A.F. amplifiers	1	
BDY11	AD	130W	1	100	70	4	2A	30 at 2A	30	100		1	

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				V <sub>CE0</sub> (V)	V <sub>CEO</sub> (V)	V <sub>EBO</sub> (V)	I <sub>C</sub> (mA)		μA	V		

R.C.A. (Continued)

Current Types (Continued)

2N3055	H	115W	0.8	—	60	—	9A	45 at 4A	—	—	General purpose	1	
2N6253	H	115W	0.8	—	45	—	9A	45 at 3A	—	—		1	
2N6371	H	117W	0.8	—	40	—	9A	37 at 8A	—	—		1	
40893	PE	120W	5	—	200	—	4A	45 at 2A	—	—	Audio amplifiers	1	
2N3265	—	125W	20	—	90	—	20A	50 at 15A	—	—	High current	27	
2N3266	—	125W	20	—	60	—	20A	50 at 15A	—	—		27	
2N5038	—	140W	60	—	90	—	20A	60 at 12A	—	—	High speed switching	1	
2N5039	—	140W	60	—	75	—	20A	60 at 10A	—	—		1	
2N5671	—	140W	50	—	90	—	25A	60 at 15A	—	—		1	
2N5672	—	140W	50	—	120	—	25A	60 at 15A	—	—		1	
2N6032	—	140W	50	—	90	—	50A	30 at 50A	—	—		1	
2N6033	—	140W	50	—	120	—	50A	30 at 40A	—	—		1	
2N6354	—	140W	60	—	120	—	20A	55 at 10A	—	—		1	
2N6496	—	140W	60	—	110	—	20A	56 at 8A	—	—		1	
2N2015	H	150W	0.8	—	50	—	9A	32 at 5A	50	30		D.C./D.C. converter	5
2N2016	H	150W	0.8	—	65	—	9A	32 at 5A	50	30		Choppers	5
2N2338	H	150W	0.8	—	40	—	9A	37 at 3A	200	30	5		
2N3442	H	150W	0.8	—	140	—	9A	45 at 3A	—	—	General purpose	1	
2N4347	H	150W	0.8	—	120	—	9A	37 at 2A	—	—		1	
2N6254	H	150W	0.8	—	80	—	9A	45 at 5A	—	—		1	
2N6262	H	150W	0.8	—	150	—	9A	45 at 3A	—	—		1	
BUX17	—	175W	2.5	—	150	—	9A	20‡ at 4A	—	—		1	
BUX17A	—	175W	2.5	—	250	—	9A	20‡ at 4A	—	—		1	
BUX17B	—	175W	2.5	—	300	—	9A	15‡ at 4A	—	—		1	
BUX17C	—	175W	2.5	—	350	—	9A	15‡ at 4A	—	—		1	
2N6249	—	175W	2.5	—	200	—	9A	30 at 10A	—	—		Switching	1
2N6250	—	175W	2.5	—	275	—	9A	29 at 10A	—	—			1
2N6251	—	175W	2.5	—	350	—	9A	28 at 10A	—	—	Regulators	1	
40854	—	175W	2.5	—	300	—	9A	8‡ at 10A	—	—		1	
41012	—	175W	60	—	85	—	20A	37 at 10A	—	—	High speed switching	1	
41013	—	175W	60	—	130	—	20A	37 at 10A	—	—		1	
40988	PE	200W	5	—	250	—	4A	45 at 2A	—	—	General purpose	1	
2N3773	H	250W	0.7	—	140	—	20A	37 at 8A	—	—		1	
2N4348	H	250W	0.7	—	120	—	20A	37 at 5A	—	—		1	
2N6259	H	250W	0.7	—	150	—	20A	37 at 8A	—	—		1	
2N3771	H	250W	0.8	—	40	—	30A	37 at 15A	—	—		1	
2N3772	H	250W	0.8	—	60	—	30A	37 at 10A	—	—		1	
2N6257	H	250W	0.8	—	40	—	30A	45 at 8A	—	—		1	
2N5575	H	300W	0.4	—	50	—	60A	25 at 60A	—	—		1	
2N5578	H	300W	0.4	—	70	—	60A	25 at 40A	—	—		1	

‡ Minimum value

SGS-ATES

Current Types

BF457	—	—	—	160	160	—	200	25‡ at 30	—	—	Video output	51
BF458	—	—	—	250	250	—	200	25‡ at 30	—	—		51
BF459	—	—	—	300	300	—	200	25‡ at 30	—	—		51
BFR10	—	—	—	—	40	—	500	65 at 500	—	—	Fast switching	2
BFR11	—	—	—	—	40	—	500	65 at 500	—	—		2
BFR20	—	—	—	—	35	—	500	250 at 150	—	—	General purpose switching	2
BFR21	—	—	—	—	70	—	500	70 at 150	—	—		2
BFW68	—	—	—	—	40	—	50	120 at 10	—	—		2
BFX34	—	—	—	—	60	—	2A	80 at 2A	—	—	Fast switching	2
BFX94A	—	—	—	—	30	—	500	62 at 500	—	—		2
BFX95A	—	—	—	—	30	—	500	125 at 500	—	—		2
BFX96A	—	—	—	—	30	—	500	62 at 500	—	—		2
BFX97A	—	—	—	—	30	—	500	125 at 500	—	—		2
BFY56	—	—	—	—	45	—	500	70 at 150	—	—	General purpose switching	2
BFY56A	—	—	—	—	55	—	500	80 at 150	—	—		2

Continued