

NPN Silicon General Purpose Amplifiers and Switches

Metal can (TO-39)

V_{CBO} up to 120V.

I_C up to 750mA. $P_{TOT} = 800mW @ 25^\circ C$.

Outline Drawing No. 66 applies.

REFERENCE TABLE

	Max. ratings			Characteristics @ 25°C						
	V_{CBO} (V)	V_{CEO} (V)	I_C (A)	min.	h_{FE} @ I_C max.	I_{CBO} max. (nA)	at V_{CB} (V)		F_T Typ. MHz	Stock No.
BSY51	60	25	0.5	40	120	150	100	30	100	27775E
BSY52	60	25	0.5	100	300	150	100	30	130	27776C
BSY53	75	30	0.75	40	120	150	10	60	100	27777A
BSY54	75	30	0.75	100	300	150	10	60	145	27778X
BSY55	120	80	0.5	40	120	150	10	90	100	27779H
BSY56	120	80	0.5	100	300	150	10	90	145	27780X
BSY87	100	60	0.5	40	120	150	10	75	100	27781R
BSY88	100	60	0.5	100	300	150	10	75	145	27782G
BSY90	60	25	0.5	250	—	150	10	30	170	27783E
2N1613	75	50	0.5	30	100	1	10	60	80	1046X
2N1711	75	50	0.5	50	200	1	10	60	100	1047R
2N1893	120	80	0.5	30	100	1	10	90	75	1045B

NPN Silicon High Speed Switching Transistors

Metal can (TO-18).

Silicon planar epitaxial construction.

$V_{EBO} = 5V$. $P_{TOT} = 300mW @ 25^\circ C$.

Outline Drawing No. 65 applies.

REFERENCE TABLE

	Max. ratings			Characteristics @ 25°C							
	V_{CBO} (V)	V_{CEO} (V)	I_{CM} (mA)	min.	h_{FE} @ I_C mA	I_{CBO} @ V_{CB} max. (nA)	$V_{CE(sat)}$ max. (V)	@ I_C/I_B (mA)	f_T min. (MHz)	Stock No.	
BSY95A	20	15	100	50	10	50	16	10/0.35	200	1106H	
BSY27	20	15	100	40	10	25	9	10/1	200	31273C	
2N706	25	—	50	20	10	500	15	0.6	10/1	200	1130H
2N706A	25	15	50	20	1	500	15	0.6	10/1	200	1131F
2N708	40	15	100	30	10	25	20	0.4	10/1	300	1133B
2N743	20	12	200	10	100	1000	20	1.0	100/10	300	14093E
2N744	20	12	200	20	100	1000	20	1.0	100/10	300	27797D
2N753	25	15	50	40	1	500	15	0.6	10/1	200	27798B
2N914	40	15	500	30	10	25	20	0.7	200/20	300	1136G
2N2388	40	15	500	20	10	400	20	0.25	10/1	500	1128G
2N2389	40	15	500	40	10	400	20	0.25	10/1	500	7862E
2N2389A	40	15	500	40	10	400	20	0.2	10/1	500	1140D

MANUFACTURER'S CURRENT LIST PRICES ARE ALWAYS CHARGED

NPN Small Signal Transistors—continued

REFERENCE TABLE

Code	Max P _{TOT} @ T _{AMB} =25°C (W)	V _{CEO} (V)	I _C Range (mA)	h _{FE}	@ I _C (mA)	Max NF (dB)	Min f _T (MHz)	Stock No.	Outline Drawing No.
BFR37	0.25	30	0.5-50	80-250	10	—	800	31522A	70
BFW68	0.36	40	0.1-50	750	10	5.8	250	30792F	65
BFX18	0.2	30	0.1-30	>25	4	5	400	19041D	70
BFX31	0.2	30	0.1-30	>25	4	3	400	19045G	70
BFY74	0.36	45	0.01-30	40-180	10	—	250	19068D	65
BFY75	0.36	45	0.01-30	65-300	10	—	250	30795X	65
BFY76	0.36	45	0.01-50	150-220	1	4	40	19069B	65
C64	0.36	45	0.01-30	65-200	10	—	250	34339F	65
C111E	0.3	12	—	40-60	10	—	250	19092D	65
C400	0.4	30	—	40	100	—	40	19093B	65
C444	0.3	35	—	30	20	—	—	19097E	65
C720	0.36	12	1-50	25	10	—	200	19099A	65
C740	0.36	30	0.01-10	60	1	—	30	19101A	65
C760	0.5	30	5-100	40	50	—	30	19104F	65
P346A	0.3	12	—	20	5	—	400	19118E	65
2N697	0.6	40	—	40-120	150	—	50	34313D	66
2N706	0.3	15	—	20	10	—	200	19139F	65
2N706A	0.3	20	—	20-60	10	—	200	19149R	65
2N708	0.36	15	—	30-120	10	—	300	19141G	65
2N914	0.36	15	0.01-500	30-120	10	—	—	19142E	65
2N918	0.2	15	0.01-50	>20	3	6	600	19143C	70
2N930	0.3	45	—	60	0.5	3	30	19144A	65
2N2218	0.8	30	0.1-500	40-120	150	—	250	19148D	67
2N2218A	0.8	40	0.1-500	40-120	150	4	250	34767X	67
2N2219	0.8	30	0.1-500	100-300	150	—	250	19149B	67
2N2219A	0.8	40	0.1-500	100-300	150	4	300	29187B	67
2N2221	0.5	30	0.1-500	40-120	150	—	250	19150E	65
2N2221A	0.5	40	0.1-500	40-120	150	4	250	29188X	65
2N2222	0.5	30	0.1-500	100-300	150	—	250	34768H	65
2N2222A	0.5	40	0.1-500	100-300	150	4	300	29189E	65
2N2368	0.36	40	—	* 20-60	10	—	400	19154H	65
2N2369	0.36	40	0.1-100	40-120	10	—	500	19155F	65
2N2369A	0.36	40	0.1-100	40-120	10	—	500	19156D	65
2N2484	0.36	60	—	450	1	3	15	19159R	65

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