

NPN Silicon Medium Current Transistors

Metal Can (TO-39 or TO-18). V_{CB0} up to 75V. I_C up to 800 mA.

Outline Drawing No. 66 applies for TO-39 types. $P_{TOT} = 800$ mW @ 25°C.

Outline Drawing No. 65 applies for TO-18 types. $P_{TOT} = 500$ mW @ 25°C.

Code	Max. ratings			Characteristics @ 25°C								
	V_{CB0} (V)	V_{CE0} (V)	I_C (A)	h_{FE} at I_C		I_{CB0} max. (nA)	V_{CB} (V)	$V_{CE(SAT)}$ max. (V)	at I_C/I_B (mA)	ft min. (MHz)	Stock No.	
TO-39				min.	max.	(A)						
2N2218	60	30	0.8	40	120	.15	10	50	0.4	150/15	250	27785A
2N2218A	75	40	0.8	40	120	.15	10	60	0.3	150/15	250	31275X
2N2219	60	30	0.8	100	300	.15	10	50	0.4	150/15	250	27786X
2N2219A	75	40	0.8	100	300	.15	10	60	0.3	150/15	250	31276H
TO-18												
2N2221	60	30	0.8	40	120	.15	10	50	0.4	150/15	250	15892D
2N2221A	75	40	0.8	40	120	.15	10	60	0.3	150/15	250	31277F
2N2222	60	30	0.8	100	300	.15	10	50	0.4	150/15	250	15293F
2N2222A	75	40	0.8	100	300	.15	10	60	0.3	150/15	250	31674B

NPN Silicon High Current Transistors

Metal Can (TO-5). V_{CB0} up to 120V. I_C up to 1A. $P_{TOT} = 900$ mW @ 25°C.

Outline Drawing No. 67 applies.

Code	Max. ratings			Characteristics @ 25°C						
	V_{CB0} (V)	V_{CE0} (V)	I_{CM} (A)	h_{FE} at I_C		I_{CB0} max at (μ A)	V_{CB} (V)	F_t (MHz)	Stock No.	
BSY81	40	18	1	40	120	150	0.1	30	100	27768C
BSY82	40	18	1	100	300	150	0.1	30	120	27769A
BSY83	80	35	1	40	120	150	0.01	60	100	27770D
BSY84	80	35	1	100	300	150	0.01	60	120	27771B
BSY85	120	64	1	40	120	150	0.01	90	110	27772X
BSY86	120	64	1	100	300	150	0.01	90	130	27773R
2N4046	50	30	1*	40	150	100	1.7	40	375	27795H
2N4047	80	50	1*	40	150	100	1.7	60	375	27796F
2N3724	50	30	1*	60	150	100	1.7	40	375	27793A
2N3725	80	50	1*	60	150	100	1.7	40	375	27794X
BFY50	80	35	1	30	—	150	—	—	100	31270R
BFY51	60	30	1	40	—	150	—	—	80	31271G
BFY52	40	20	1	60	—	150	—	—	80	31272E

*Pulsed

NPN Silicon High Voltage Transistors

Metal can (TO-39)—BF Types only. $P_{TOT} = 5W$ @ $T_{case} = 25^\circ C$.

Outline Drawing No. 66 applies to BF257, BF258, BF259 only.

Code	Max. ratings			Characteristics @ 25°C						
	V_{CB0} (V)	V_{CE0} (V)	I_C (mA)	h_{FE} @ I_C		I_{CB0} @ V_{CB} max. (nA)	$V_{CE(sat)}$ @ I_C/I_B max. (V)	I_C/I_B (mA)	Stock No.	
BF257	160	160	100	25	30	50	100	1	30/6	31267X
BF258	250	250	100	25	30	50	200	1	30/6	31268H
BF259	300	300	100	25	30	50	250	1	30/6	31269F
*BSY79	120	120	30	30	1	50	90	0.5	2/0.2	7861G

*NOTE: The BSY79 is in a TO-18 package. $P_{TOT} = 300$ mW @ 25°C.

The V_{CE0} rating is V_{CEV} (with $V_{EB} = IV$). Intended for driving numerical indicator tubes.

PLEASE QUOTE STOCK NO. AND MANUFACTURER'S CODE WHEN ORDERING