NPN Silicon Transistors

NPN Silicon Transistors for high level audio applications

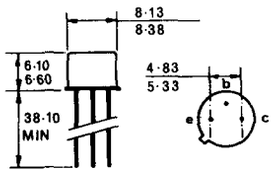
Type		Maximum ratings							Characteristics at T_{amb} =25°C		
	Case	BV_{CEO} V	BV_{CBO} V	BV_{EBO} V	I_{CM} A	P_{TOT}[1] W	P_{TOT}[2] W	T_{JM} °C	h_{FE}(10V/150mA)	h_{FE}(V_{CE}/I_C) (V/A)	max $V_{CE\ sat}$(150mA/15mA) V
BFX 84	TO5	60	100	6	1	0.8	5	200	> 30	> 20 (10/0.5)	0.35
BFX 85	TO5	60	100	6	1	0.8	5	200	> 70	> 30 (10/0.5)	0.35
BFX 86	TO5	35	40	6	1	0.8	5	200	> 70	> 30 (10/0.5)	0.35
BFY 50	TO5	35	80	6	1	0.8	5	200	> 30	> 15 (6/1)	0.20
BFY 51	TO5	30	60	6	1	0.8	5	200	> 40	> 15 (6/1)	0.35
BFY 52	TO5	20	40	6	1	0.8	5	200	> 60	> 15 (6/1)	0.35
BFY 53	TO5	20	30	6	1	0.8	5	200	> 30	— —	0.35
NKT 0028	TO5	60	60	5	1	0.8	3	200	30 ... 250	— —	1.4
NKT 0128	TO5	60	60	5	1	1	5	200	30 ... 250	> 10 (1/1)	—
NKT 10339	TO18	30	45	5	0.5	0.5	1.8	175	—	50 ... 150 (10/0.1)	—
NKT 10439	TO18	30	45	5	0.5	0.5	1.8	175	—	100 ... 300 (10/0.1)	—
PN 1613	Plastic TO5	50[3]	75	7	1	0.3	—	125	40 ... 120	> 20 (10/0.5)	1.5
PN 1711	Plastic TO5	50[3]	75	7	1	0.3	—	125	100 ... 300	> 40 (10/0.5)	1.5
2N 697	TO5	40[3]	60	5	—	0.6	2	200	40 ... 120	— —	1.5
2N 1613	TO5	50[3]	75	7	—	0.8	3	200	40 ... 120	> 20 (10/0.5)	1.5
2N 1711	TO5	50[3]	75	7	—	0.8	3	200	100 ... 300	> 40 (10/0.5)	1.5
2N 1893	TO5	80	120	7	—	0.8	3	200	40 ... 120	> 35 (10/0.01)	5
2N 2297	TO5	35	80	7	1	0.8	5	200	40 ... 120	> 15 (10/1)	—
2N 3053	TO5	40	60	5	0.7	1	5	200	50 ... 250	— —	1.4

1 T_{amb}= 25°C

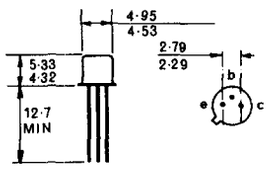
2 T_{case}= 25°C Derate linearly to T_{JM}

3 BV_{CER} (0.1A, 10 ohm)

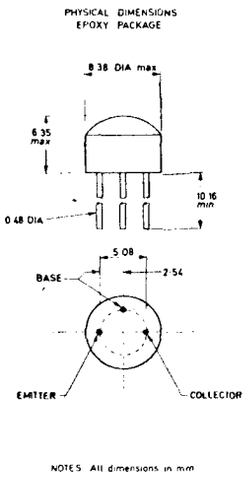
TO 5



TO 18



Plastic TO 5



Plastic TO 18