

NPN Silicon Transistors

NPN Silicon Planar Transistors for low-level audio applications

Common maximum ratings	P_{tot} ($T_{amb} = 25^\circ C$) 300mW (TO-18) ¹ 200mW (Plastic TO-18)	T_{JM} 175°C (TO-18) ¹ 125°C (Plastic TO-18)
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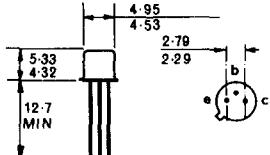
Type	TO-18 case	Maximum ratings		Characteristics at $T_{amb} = 25^\circ C$						
		BV_{CEO} V	BV_{CBO} V	BV_{EBO} V	I_{CM} mA	h_{FE} (5V/10uA)	$h_{FE}(V_{CE}/I_C)$ (V/ma)	max V_{CEsat} mV (10mA/0.5mA)	f_T MHz	$Cob(5V)$ pF
Plastic TO-18										
PN 107	BC 107	45	50	6	200	—	110 ... 450(5/2)	250	250	4.5
PN 107 A	BC 107 A	45	50	6	200	—	110 ... 220(5/2)	250	250	4.5
PN 107 B	BC 107 B	45	50	6	200	—	200 ... 450(5/2)	250	250	4.5
PN 108	BC 108	20	30	5	200	—	110 ... 800(5/2)	250	250	4.5
PN 108 A	BC 108 A	20	30	5	200	—	110 ... 220(5/2)	250	250	4.5
PN 108 B	BC 108 B	20	30	5	200	—	200 ... 450(5/2)	250	250	4.5
PN 108 C	BC 108 C	20	30	5	200	—	420 ... 800(5/2)	250	250	4.5
PN 109²	BC 109²	20	30	5	200	—	200 ... 800(5/2)	250	250	4.5
PN 109 B²	BC 109 B²	20	30	5	200	—	200 ... 450(5/2)	250	250	4.5
PN 109 C²	BC 109 C²	20	30	5	200	—	420 ... 800(5/2)	250	250	4.5
—	NKT 10419	25	25	5	100	—	100 ... 300(10/0.1)	—	100	—
—	NKT 10518²	45	50	5	200	—	250 ... 400(5/2)	250	300	4.5
—	NKT 10519	25	25	5	100	—	200 ... 600(10/0.1)	—	100	—
PN 929²	2N 929²	45	45	5	30	40 ... 120	100 ... 350(5/10)	1000	>30	< 8
PN 930³	2N 930³	45	45	5	30	100 ... 300	200 ... 600(5/10)	1000	>30	< 8
—	2N2483²	60	60	6	50	40 ... 120	< 500(5/10)	—	>12	< 6
—	2N2484³	60	60	6	50	100 ... 500	< 800(5/10)	—	>15	< 6

¹ 2N 2483/4 have $P_{tot}=360$ mW, $T_{JM}=200^\circ C$

² Noise figure < 4 dB

³ Noise figure < 3 dB

TO 18



Plastic TO 18

