

# 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)<sup>1</sup>**  
**200mW (Plastic TO-18)**

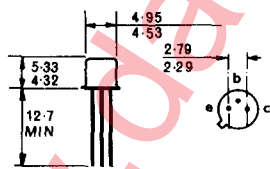
$T_{JM}$   
**175°C (TO-18)<sup>1</sup>**  
**125°C (Plastic TO-18)**

Type		Maximum ratings			Characteristics at $T_{amb} = 25^{\circ}C$					
Plastic TO-18	TO-18 case	$BV_{CEO}$ V	$BV_{CBO}$ V	$BV_{EBO}$ V	$I_{CM}$ mA	$h_{FE}(5V/10\mu A)$	$h_{FE}(V_{CE}/I_C)$ (V/ma)	max $V_{CE sat}$ mV (10mA/0.5mA)	$f_T$ MHz	$Cob(5V)$ pF
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 109 <sup>2</sup>	BC 109 <sup>2</sup>	20	30	5	200	—	200 ... 800(5/2)	250	250	4.5
PN 109 B <sup>2</sup>	BC 109 B <sup>2</sup>	20	30	5	200	—	200 ... 450(5/2)	250	250	4.5
PN 109 C <sup>2</sup>	BC 109 C <sup>2</sup>	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 10518 <sup>2</sup>	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 929 <sup>2</sup>	2N 929 <sup>2</sup>	45	45	5	30	40 ... 120	100 ... 350(5/10)	1000	>30	< 8
PN 930 <sup>3</sup>	2N 930 <sup>3</sup>	45	45	5	30	100 ... 300	200 ... 600(5/10)	1000	>30	< 8
—	2N2483 <sup>2</sup>	60	60	6	50	40 ... 120	< 500(5/10)	—	>12	< 6
—	2N2484 <sup>3</sup>	60	60	6	50	100 ... 500	< 800(5/10)	—	>15	< 6

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

<sup>2</sup> Noise figure < 4 dB

<sup>3</sup> Noise figure < 3 dB



TO 18

