

NPN Silicon Epitaxial Planar Transistors ($I_C = 100\text{mA}$) for general amplifying and switching purposes

Common maximum ratings	$-I_C$ 100 mA	$-V_{EBO}$ 5 V⁵	P_{tot} ($T_{amb} = 25^\circ\text{C}$) 300 mW (TO-92)³ 300 mW (TO-18)⁴	T_i 125 °C (TO-92) 175 °C (TO-18)⁴
Common characteristics	Θ_{amb} < 0,33 °C/mW (TO-92)³ < 0,50 °C/mW (TO-18)⁴			

Type	Maximum Ratings	Characteristics at $T_{amb} = 25^\circ\text{C}$									
TO-92 Epoxy	TO-18 case	$-V_{CB0}$ V	$-V_{CE0}$ V	h_{21E}	$\frac{-V_{CE}}{-I_C}$ V/mA	h_{21e}	$-V_{CE\ sat}$ V	$\frac{-I_C}{-I_B}$ mA/mA	f_T MHz	$-I_{CB0}$ nA ($-I_{CES}$ nA)	$-V_{CB}$ V ($-V_{CE}$ V)
BC 250 A	BC 260 A	20	20	35 ... 100	1/1	(70)	< 0,4	30/3	180	< 100	15
BC 250 B	BC 260 B	20	20	80 ... 250	1/1	(150)	< 0,4	30/3	180	< 100	15
BC 250 C	BC 260 C	20	20	200 ... 600	1/1	(350)	< 0,4	30/3	180	< 100	15
BC 251 A	BC 261 A	45	45	200	5/20	125 ... 260	< 0,6	50/2,5	200	< 50	45
BC 251 B	BC 261 B	45	45	400	5/20	240 ... 500	< 0,6	50/2,5	200	< 50	45
BC 251 C	BC 261 C	45	45	600	5/20	450 ... 900	< 0,6	50/2,5	200	< 50	45
BC 252 A	BC 262 A	20	20	200	5/20	125 ... 260	< 0,6	50/2,5	200	< 50	20
BC 252 B	BC 262 B	20	20	400	5/20	240 ... 500	< 0,6	50/2,5	200	< 50	20
BC 252 C	BC 262 C	20	20	600	5/20	450 ... 900	< 0,6	50/2,5	200	< 50	20
BC 253 A ¹	BC 263 A ¹	20	20	> 40	5/0,01	125 ... 260	< 0,6	50/2,5	200	< 50	20
BC 253 B ¹	BC 263 B ¹	20	20	> 40	5/0,01	240 ... 500	< 0,6	50/2,5	200	< 50	20
BC 253 C ¹	BC 263 C ¹	20	20	> 100	5/0,01	450 ... 900	< 0,6	50/2,5	200	< 50	20
BC 256 A	BC 266 A	64	64	200	5/20	125 ... 260	< 0,6	50/2,5	200	< 50	64
BC 256 B	BC 266 B	64	64	400	5/20	240 ... 500	< 0,6	50/2,5	200	< 50	64
—	2 N 3962 ²	60	60	100 ... 450	5/1	(100 ... 550)	< 0,4	50/5	200	(< 10)	(50)
—	2 N 3963 ²	80	80	100 ... 450	5/1	(100 ... 550)	< 0,4	50/5	200	(< 10)	(70)
—	2 N 3964 ²	45	45	250 ... 600	5/1	(250 ... 700)	< 0,4	50/5	200	(< 10)	(40)
—	2N3965 ²	60	60	250 ... 600	5/1	(250 ... 700)	< 0,4	50/5	200	(< 10)	(50)

¹ Low noise type

² Very low noise type.

³ Leads at T_{amb} at 2mm from case.

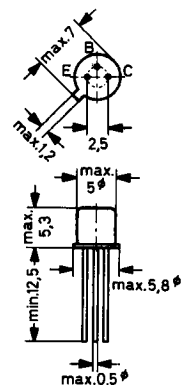
⁴ 2 N 3962 ... 2 N 3965: $P_{tot} = 360\text{ mW}$, $T_i = 200^\circ\text{C}$, $\Theta_{amb} < 0,48^\circ\text{C/mW}$

⁵ 2 N 3962 ... 2 N 3965: 6 V

TO-18 Outline

Weight 0,35 p

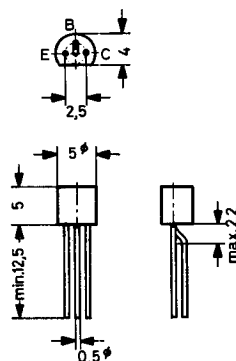
Collector connected to case



Epoxy \approx TO-92 Outline

Compatible with TO-18

Weight 0,23 p



Dimensions in mm