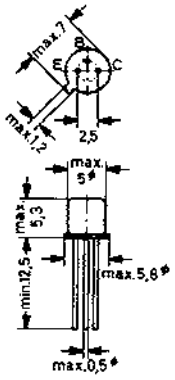
NPN Silicon Epitaxial Planar Transistors (I_C = 100mA) for general amplifying and switching purposes

Common maximum ratings	$-I_C$ **100 mA**	$-V_{EB0}$ **5 V** [5]	P_{tot} (T_{amb} = 25 °C) **300 mW (TO-92)** [3] **300 mW (TO-18)** [4]	T_j **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]			

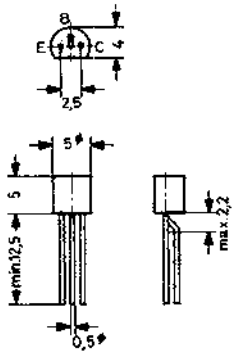
Type		Maximum Ratings		Characteristics at T_{amb} = 25 °C							
						@ $-V_{CE}$ = 5 V $-I_C$ = 2 mA ($-I_C$ = 1 mA)			@ $-V_{CE}$ = 5 V $-I_C$ = 10 mA f = 100 MHz		
TO-92 Epoxy	TO-18 case	$-V_{CB0}$ V	$-V_{CE0}$ V	h_{21E}	@ $-V_{CE}/-I_C$ V/mA	h_{21e}	$-V_{CE\,sat}$ V	@ $-I_C/-I_B$ mA/mA	f_T MHz	$-I_{CB0}$ 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 mW, T_j = 200 °C, Θ_{amb} < 0,48 °C/mW
[5] 2 N 3962 . . . 2 N 3965: 6 V

TO-18 Outline
Weight 0,35 p
Collector connected to case



Epoxy≃ TO-92 Outline
Compatible with TO-18
Weight 0,23 p



Dimensions in mm