



**MIKROELEKTRONIKAI
VÁLLALAT**

Enterprise for Micro-Electronics

**ALKATRÉSZ VÁLASZTÉK
Electronical Components**



AF LOW- AND MEDIUM-POWER SILICON EPITAXIAL PLANAR TRANSISTORS

Type	h _{21E} -code	Structure	Outline	MAXIMUM RATINGS						R _{thjc} (R _{thja}) K/mW	TYPICAL CHARACTERISTICS (T _j =25°C)						
				V _{CB0} (V _{CEs}) V	V _{CEO} V	V _{EBO} V	I _C mA	T _j °C	P _{tot} mW		f _T MHz	h _{21E} at I _C mA		V _{CEsat} max. at I _C mA	F typ. max dB dB		
BC107	A	NPN	1	(50)	45	6	100	175	300 ¹	(0.5)	250	120...220	2	0.2	10	2	10
	B	NPN	1	(50)	45	6	100	175	300 ¹	(0.5)	250	180...460	2	0.2	10	2	10
BC108	A	NPN	1	(30)	20	5	100	175	300 ¹	(0.5)	250	120...220	2	0.2	10	2	10
	B	NPN	1	(30)	20	5	100	175	300 ¹	(0.5)	250	180...460	2	0.2	10	2	10
	C	NPN	1	(30)	20	5	100	175	300 ¹	(0.5)	250	380...800	2	0.2	10	2	10
BC109	B	NPN	1	(30)	20	5	50	175	300 ¹	(0.5)	300	180...460	2	0.2	10		4
	C	NPN	1	(30)	20	5	50	175	300 ¹	(0.5)	300	380...800	2	0.2	10		4
BC140 ⁵	6	NPN	3	(80)	40	7	1000	175	650 ⁴	0.035	≅ 50	40...95	100	1	1000		
	10	NPN	3	(80)	40	7	1000	175	650 ⁴	0.035	≅ 50	67...150	100	1	1000		
	16	NPN	3	(80)	40	7	1000	175	650 ⁴	0.035	≅ 50	106...236	100	1	1000		
BC141 ⁵	6	NPN	3	(100)	60	7	1000	175	650 ⁴	0.035	≅ 50	40...95	100	1	1000		
	10	NPN	3	(100)	60	7	1000	175	650 ⁴	0.035	≅ 50	67...150	100	1	1000		
	16	NPN	3	(100)	60	7	1000	175	650 ⁴	0.035	≅ 50	106...236	100	1	1000		
BC160 ⁵	6	PNP	3	(40)	40	5	1000	175	650 ⁴	0.035	≅ 50	40...95	100	1	1000		
	10	PNP	3	(40)	40	5	1000	175	650 ⁴	0.035	≅ 50	67...150	100	1	1000		
	16	PNP	3	(40)	40	5	1000	175	650 ⁴	0.035	≅ 50	106...236	100	1	1000		
BC161 ⁵	6	PNP	3	(60)	60	5	1000	175	650 ⁴	0.035	≅ 50	40...95	100	1	1000		
	10	PNP	3	(60)	60	5	1000	175	650 ⁴	0.035	≅ 50	67...150	100	1	1000		
	16	PNP	3	(60)	60	5	1000	175	650 ⁴	0.035	≅ 50	106...236	100	1	1000		
BC177	A	PNP	1	(50)	45	5	100	175	300 ¹	(0.5)	130	120...220	2	0.2	10		10
	B	PNP	1	(50)	45	5	100	175	300 ¹	(0.5)	130	180...460	2	0.2	10		10
BC178	A	PNP	1	(30)	25	5	100	175	300 ¹	(0.5)	130	120...220	2	0.2	10		10
	B	PNP	1	(30)	25	5	100	175	300 ¹	(0.5)	130	180...460	2	0.2	10		10
	C	PNP	1	(30)	25	5	100	175	300 ¹	(0.5)	130	380...800	2	0.2	10		10
BC179	B	PNP	1	(25)	20	5	50	175	300 ¹	(0.5)	130	180...460	2	0.2	10		4
	C	PNP	1	(25)	20	5	50	175	300 ¹	(0.5)	130	380...800	2	0.2	10		4

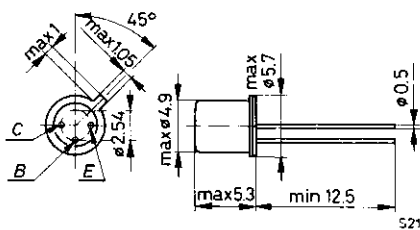


Fig. 1 TO-18

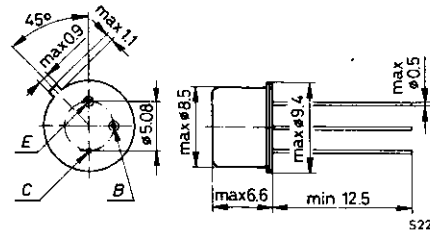


Fig. 3 TO-39

¹ T_{amb} ≅ 25 °C.

⁴ T_{amb} ≅ 45 °C.

⁵ available in complementary pairs: BC140/BC160, BC141/BC161