



**PIN CONFIGURATION**  
 1. Emitter  
 2. Base  
 3. Collector

DIM	MIN	MAX
A	5,24	5,84
B	4,52	4,97
C	4,31	5,33
D	0,40	0,53
E	—	0,76
F	—	1,27
G	—	2,97
H	0,91	1,17
J	0,71	1,21
K	12,7	—
L	45 DEG	—

ALL DIMENSIONS ARE IN M.M.

**TO-18 Metal-Can Package Transistors (NPN)**

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)															
Type No.	V <sub>CB0</sub> (V) Min	V <sub>CE0</sub> (V) Min	V <sub>EBO</sub> (V) Min	P <sub>D</sub> (W) @Tc=25°C	I <sub>C</sub> (A)	I <sub>CM</sub> (A)	I <sub>CB0</sub> (μA) Max	V <sub>CB</sub> (V) @ (V)	I <sub>CES</sub> (μA) Max	V <sub>CE</sub> (V) @ (V)	h <sub>FE</sub>	@	I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	V <sub>CE(SAT)</sub> (V) & Max	V <sub>BE(SAT)</sub> (V) Max	I <sub>C</sub> (mA) @ (mA)	C <sub>ob</sub> (pF) Min Max Typ	f <sub>t</sub> (MHz) Min Typ Max	t <sub>on</sub> (ns) Max	NF @ Freq (dB) (MHz) Max	
2N706	25	15	3	0.3	0.05		0.5	15			20		10	1	0.6	0.9	10	6	200		10	75
2N706A	25	15	5	0.3	0.05		10	25			20	60	10	1	0.6	0.7	0.9	5	200		10	75
2N708	40	15	5	0.36			0.025	20			30	120	10	1	0.4	0.72	0.8	6	300		10	70
2N718	60	30	5	0.4	0.5		1	30			40	120	150	10	1.5		1.3	35	50		15	
2N718A	75	50	7	0.5	0.5		0.01	60			20		500	10	1.5		1.3	25	60		50	12
2N720	120	80	5	0.4	0.4		2	60			40	120	150	10	5		1.3	20				
2N720A	120	80	7	0.5	0.5		0.01	90			20		0.1	10	1.2		0.9	15	50		50	
2N834	40	20	5	0.3	0.2		0.5	20	0.01	30	25		10	1	0.25		0.9	4	350		10	75
2N910	100	60	7	0.5	1		0.025	75			35		0.1	10	0.4	0.6	0.8	15	60		50	12
2N911	100	60	7	0.5	0.5		0.025	75			20		0.1	10	0.4	0.6	0.8		50		50	15
2N915	70	50	5	0.36			0.01	60			50	200	10	5	1		0.9	3.5				
2N916	45	25	5	0.36	0.2		0.01	30			50	200	10	1	0.5		0.9	6				
2N929	45	45	5	0.5	0.03		0.01	45			60		10	5	1	0.6	1	8	30		0.5	4
											40	120	0.01	5								

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																	
Type No.	V <sub>CEO</sub> (V)	V <sub>CE0</sub> (V)	V <sub>EBO</sub> (V)	P <sub>D</sub> (W)	I <sub>C</sub> (A)	I <sub>CM</sub> (A)	I <sub>CBO</sub> (μA)	V <sub>CB</sub> (V)	I <sub>CES</sub> (μA)	V <sub>CE</sub> (V)	h <sub>FE</sub>	β	I <sub>C</sub> & (mA)	V <sub>CE</sub> (V)	V <sub>CE(SAT)</sub> (V) &	V <sub>BE(SAT)</sub> (V)	I <sub>C</sub> (mA)	C <sub>cb</sub> (pF)	f <sub>t</sub> (MHz)	β	I <sub>C</sub> (mA)	t <sub>on</sub> (ns)	NF @ Freq (dB) (MHz)	
	Min	Min	Min	@Tc=25°C			Max	@	Max	@	Min	Max			Max	Min	Max	Min	Max	Typ	Min	Typ	Max	Max
2N930	45	45	5	0.5	0.03		0.01	45	0.01	45	600	10	5	1	0.7	0.9	10	8	30					3
											150		0.5											
											100	300	0.01											
2N2221	60	30	5	0.5	0.8		0.01	50			20		0.1	10	0.4	0.6	1.3	150	8	250		20		
											25		1	10	1.6		2.6	500						
											35		10	10										
											40	120	150	10										
											20		150	1										
											20		500	10										
2N2221A	75	40	6	0.5	0.8	0.8	0.01	60			25		500	10	0.3	0.6	1.2	150	8	250		20	285	
											40	120	150	10	1		2	500						
											35		10	10										
											25		1	10										
											20		0.1	10										
											20		150	1										
2N2222	60	30	5	0.5	0.8		0.01	50			30		500	10	0.4	0.6	1.3	150	8	250		20		
											50		150	1	1.6		2.6	500						
											100	300	150	10										
											75		10	10										
											50		1	10										
											35		0.1	10										
2N2222A	75	40	6	0.5	0.8	0.8	0.01	60			40		500	10	0.3	0.6	1.2	150	8	250		20	285	4
											50		150	1	1		2	500						
											100	300	150	10										
											75		10	10										
											50		1	10										
											35		0.1	10										
2N2483	60	60	6	0.36	0.05	0.05	0.01	45			40	120	0.01	5	0.35		1		6	80	60	80	0.5	15
											75		0.1	5										
											100		0.5	5										
											175		1	5										
											500		10	5										
2N2484	60	60	6	0.36	0.05	0.05	0.01	45			250		1	5	0.35		1		6	80	60	80	0.5	3
											200		0.5	5										
											175		0.1	5										
											100	500	0.01	5										
											30		0.001	5										
											800		10	5										
2N2586	60	45	6	0.3	0.03		0.002	45			600		10	5	0.5	0.7	0.9	10	2	45			0.5	3.5
											150		0.5	5										
											120	360	0.01	5										
											80		1	5										
2N2897	60	45	7	0.5	1		0.05	60			35		1	10	1		1.3	150	15	100		50		
											50	200	150	10										
2N3117	60	60	6	0.36	0.05	0.05	0.01	45			400		1	5	0.35		1		4.5	60		0.5		1
											300		0.1	5										
											250	500	0.01	5										
											100		0.001	5										
2N3647	40	10		0.4	0.5		0.025	40			25	150	150	1										
2N3700	140	80	7	0.5	1		0.01	90			100	300	150	10	0.2		1.1	150	12	100	400	50		4 0.001
											90		10	10	0.5		500							
											50		0.1	10										
											50		500	10										
											15		1000	10										
2N6430	200	200	6	0.5	0.05		0.1	160			25		1	10	0.5		0.9	20	4	50		500	10	
											40		10	10										
											50	200	30	10										

# TO-18 Metal-Can Package Transistors (NPN)



Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																
Type No.	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	V <sub>EBO</sub> (V)	P <sub>D</sub> (W)	I <sub>C</sub> (A)	I <sub>CM</sub> (A)	I <sub>CBO</sub> (μA)	V <sub>CB</sub> (V)	I <sub>CES</sub> (μA)	V <sub>CE</sub> (V)	h <sub>FE</sub>	β	I <sub>C</sub> & V <sub>CE</sub> (mA)	V <sub>CE(SAT)</sub> (V) & V <sub>BE(SAT)</sub> (V)	I <sub>C</sub> (mA)	C <sub>ob</sub> (pF)	f <sub>t</sub> (MHz)	t <sub>on</sub> (ns)	NF @ Freq (dB) (MHz)				
	Min	Min	Min	@Tc=25°C			Max	@ (V)	Max	@ (V)	Min	Max		Max	Min	Max	Min	Typ	Max	Max			
BC107	50	45	6	0.6	0.2		0.015	45			110	450	2 5	0.6 0.25	1.05 0.83	100	4.5	150	300	10	10	0.001	
BC107A	50	45	6	0.6	0.2		0.015	45			110	220	2 5	0.6 0.25	1.05 0.83	100	4.5	150	300	10	10	0.001	
BC107B	50	45	6	0.6	0.2		0.015	45			40 200	450	0.01 2 5	0.6 0.25	1.05 0.83	100	4.5	150	300	10	10	0.001	
BC107C	50	45	6	0.6	0.2		0.015	45			100 420	800	0.01 2 5	0.25 0.6	0.83 1.05	100	4.5	150	300	10	10		
BC108	30	25	5	0.6	0.2		0.015	25			110	800	2 5	0.6 0.25	1.05 0.83	100	4.5	150	300	10	10	0.001	
BC108A	30	25	5	0.6	0.2		0.015	25			110	220	2 5	0.6 0.25	1.05 0.83	100	4.5	150	300	10	10	0.001	
BC108B	30	25	5	0.6	0.2		0.015	25			40 200	450	0.01 2 5	0.6 0.25	1.05 0.83	100	4.5	150	300	10	10	0.001	
BC108C	30	25	5	0.6	0.2		0.015	25			100 420	800	0.01 2 5	0.6 0.25	1.05 0.83	100	4.5	150	300	10	10	0.001	
BC109	30	25	5	0.6	0.2		0.015	25			200	800	2 5	0.6 0.25	1.05 0.83	100	4.5	150	300	10	4	0.001	
BC109B	30	25	5	0.6	0.2		0.015	25			40 200	450	0.01 2 5	0.6 0.25	1.05 0.83	100	4.5	150	300	10	4	0.001	
BC109C	30	25	5	0.6	0.2		0.015	25			100 420	800	0.01 2 5	0.6 0.25	1.05 0.83	100	4.5	150	300	10	4	0.001	
BCY56	45	45	5	0.3	0.1		0.1	20			100 100 40	450	10 2 5 0.01 5				4.5	250	10		5		
BCY57	25	20	5	0.3	0.1		0.1	20			200 200 100	800	10 2 5 0.01 5				4.5	350	10		5		
BCY58	# 32	32	7	0.345	0.2				0.01	32	40 80 120	100	1 1 5	0.35 0.7	0.6 0.75	0.85 1.2	100	6	150	10	800	6	0.001
BCY58-7	# 32	32	7	0.345	0.2				0.01	32	40 80 120	100	1 1 5	0.35 0.7	0.6 0.75	0.85 1.2	100	6	150	10	800	6	0.001
BCY58-8	# 32	32	7	0.345	0.2				0.01	32	45 120 185 20	100	1 1 5 0.01 5	0.35 0.7	0.6 0.75	0.85 1.2	100	6	150	10	800	6	0.001
BCY58-9	# 32	32	7	0.345	0.2				0.01	32	60 160 250 40	100	1 1 5 0.01 5	0.35 0.7	0.6 0.75	0.85 1.2	100	6	150	10	800	6	0.001
BCY58-10	# 32	32	7	0.345	0.2				0.01	32	60 240 380 100	100	1 1 5 0.01 5	0.35 0.7	0.6 0.75	0.85 1.2	100	6	150	10	800	6	0.001
BCY59	# 45	45	7	0.345	0.2				0.01	45	40 80 120	100	1 1 5	0.35 0.7	0.6 0.75	0.85 1.2	100	6	150	10	800	6	0.001

# NOTE : V<sub>CES</sub>

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																		
Type No.	V <sub>CBO</sub> (V) Min	V <sub>CEO</sub> (V) Min	V <sub>EB0</sub> (V) Min	P <sub>D</sub> (W) @Tc=25°C	I <sub>C</sub> (A)	I <sub>CM</sub> (A)	I <sub>CBO</sub> (μA) Max	V <sub>CB</sub> @ (V)	I <sub>CES</sub> (μA) Max	V <sub>CE</sub> @ (V)	h <sub>FE</sub>	@	I <sub>C</sub> & (mA)	V <sub>CE</sub> (V)	V <sub>CE(SAT)</sub> (V) & Max	V <sub>BE(SAT)</sub> (V) Min	I <sub>C</sub> @ (mA) Max	C <sub>ob</sub> (pF) Min	f <sub>t</sub> (MHz) Min	@	I <sub>C</sub> (mA) Max	t <sub>off</sub> (ns) Max	NF @ Freq (dB) (MHz) Max		
BCY59-7	# 45	45	7	0.345	0.2				0.01 45		40 80 120	100 10 220	1 1 2	5	0.35 0.7	0.6 0.75	0.85 1.2	10 100	6	150		10	800	6 .001	
BCY59-8	# 45	45	7	0.345	0.2				0.01 45		45 120 180 20	100 10 310 0.01	1 1 2 5		0.35 0.7	0.6 0.75	0.85 1.2	10 100	6	150		10	800	6 .001	
BCY59-9	# 45	45	7	0.345	0.2				0.01 45		60 160 250 40	100 10 630 0.01	1 1 2 5		0.35 0.7	0.6 0.75	0.85 1.2	10 100	6	150		10	800	6 .001	
BCY59-10	# 45	45	7	0.345	0.2				0.01 45		60 240 380 100	100 10 630 0.01	1 1 2 5		0.35 0.7	0.6 0.75	0.85 1.2	10 100	6	150		10	800	6 .001	
BFY76	45	45	6	0.36	0.08		0.02	30			30 80 140	200 0.5 1	5 5 5		0.35		1		6						
BSX21		80		0.35	0.05		0.5	50			20	4	3				0.9	4			60		4		
BSX48	50	25	5	1	0.6		0.12	50			17	100	1		1.5		1.5	500	6		250		30		
BSY79	120	\$120	5	1	0.03		0.05	90			30	1	1		0.3		1	2	4		1	100		10	
CIL351	75	70	6	0.6	0.2		0.025	20			100	250	1	10	0.25 0.6			10 100			100		10		
CIL352	75	70	6	0.6	0.2		0.025	20			200	480	1	10	0.25 0.6			10 100			100		10		
CNT1	120	80	6	0.5		0.8	0.05	100			100		10	10	0.5			50	13		50		10		

# NOTE : V<sub>CE(S)</sub>  
\$ NOTE : V<sub>CEV</sub>

# TO-18 Metal-Can Package Transistors (PNP)



Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																	
Type No.	V <sub>CBO</sub> (V)	V <sub>CEO</sub> (V)	V <sub>EBO</sub> (V)	P <sub>D</sub> (W)	I <sub>C</sub> (A)	I <sub>CM</sub> (A)	I <sub>CBO</sub> (μA)	V <sub>CB</sub> @ (V)	I <sub>CES</sub> (μA)	V <sub>CE</sub> @ (V)	h <sub>FE</sub>	@	I <sub>C</sub> & (mA)	V <sub>CE</sub> (V)	V <sub>CE(SAT)</sub> (V) &	V <sub>BE(SAT)</sub> (V)	I <sub>C</sub> @ (mA)	C <sub>ob</sub> (pF)	f <sub>L</sub> (MHz)	@	I <sub>C</sub> (mA)	t <sub>on</sub> (ns)	NF @ Freq (dB) (MHz)	
	Min	Min	Min	@Tc=25°C			Max		Max		Min	Max			Max	Min	Max	Min	Max	Typ	Min	Typ	Max	Max
2N869	25	18	5	0.36	0.2		0.01	15			20	120	10	5	1	1	10	9	100		10			
2N995	20	15	4	0.36	0.2		0.005	15			35	140	20	1	0.2	0.95	10	10	100		10			
2N2696	25	25		0.36	0.5		0.025	10			20		300	2	0.25	1.1	50	20	100		50	170		
2N2894	12	12	4	0.36	0.2				0.08	6	30		10	0.3	0.15	0.78	0.98	6	400		30	90		
2N2906	60	40	5	0.4	0.6		0.02	50			20		500	10	0.4	1.3	150	8	200		50	100		
											40	120	150	10	1.6	2.6	500							
											35		10	10										
											25		1	10										
											20		0.1	10										
2N2906A	60	60	5	0.4	0.6		0.01	50			40		500	10	0.4	1.3	150	8	200		50	100		
											40	120	150	10	1.6	2.6	500							
											40		10	10										
											40		1	10										
											40		0.1	10										
2N2907	60	40	5	0.4	0.6		0.02	50			30		500	10	0.4	1.3	150	8	200		50	100		
											100	300	150	10	1.6	2.6	500							
											75		10	10										
											50		1	10										
											35		0.1	10										
2N2907A	60	60	5	0.4	0.6		0.01	50			50		500	10	0.4	1.3	150	8	200		50	100		
											100	300	150	10	1.6	2.6	500							
											100		10	10										
											100		1	10										
											75		0.1	10										
2N3250	50	40	5	0.36	0.2				0.02	40	40		0.1	1	0.25	0.6	0.9	6	250		10		6	
											45		1	1	0.5	1.2	50							
											50	150	10	1										
											15		50	1										
2N3250A	60	60	5	0.36		0.2			0.02	40	40		0.1	1	0.25	0.6	0.9	6	250		10		6	
											45		1	1	0.5	1.2	50							
											50	150	10	1										
											15		50	1										
2N3251	50	40	5	0.36		0.2			0.02	40	80		0.1	1	0.25	0.6	0.9	6	300		10		6	
											90		1	1	0.5	1.2	50							
											100	300	10	1										
											30		50	1										
2N3251A	60	60	5	0.36		0.2			0.02	40	90		1	1	0.25	0.6	0.9	6	300		10		6	
											100	300	10	1	0.5	1.2	50							
											30		50	1										
											80		0.1	1										
2N3496	80	80	4.5	0.4	0.1		0.1	50			35		0.1	10	0.3	0.6	0.9	7	200		20	1000		
											40		1	10										
											40		10	10										
											40		50	10										
											35		100	10										
2N3497	120	120	4.5	0.4	0.1		0.1	90			35		0.1	10	0.35	0.6	0.9	6	150		20	1000		
											40		1	10										
											40		10	10										
											40		50	10										
BC177	50	45	5	0.6	0.2				0.1	20	120	460	2	5	0.6		100	4	3.5	200	300	10		10 0.001
															0.2	0.8	10							

\* NOTE : I<sub>CEx</sub>

Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																	
Type No.	V <sub>CB0</sub> (V)	V <sub>CEO</sub> (V)	V <sub>EB0</sub> (V)	P <sub>D</sub> (W)	I <sub>C</sub> (A)	I <sub>CM</sub> (A)	I <sub>CB0</sub> (μA)	V <sub>CB</sub> (V)	I <sub>CES</sub> (μA)	V <sub>CE</sub> (V)	h <sub>FE</sub>	@	I <sub>C</sub> & V <sub>CE</sub> (mA)	V <sub>CE(SAT)</sub> (V) &	V <sub>BE(SAT)</sub> (V)	I <sub>C</sub> (mA)	C <sub>ob</sub> (pF)	f <sub>t</sub> (MHz)	@	I <sub>C</sub> (mA)	t <sub>on</sub> (ns)	NF @ Freq (dB) (MHz)		
	Min	Min	Min	@Tc=25°C			Max	@	Max	@	Min	Max	Min	Max	Max	Min	Max	Min	Max	Typ	Min	Typ	Max	Max
BC177A	50	45	5	0.6	0.2				0.1	20	120	220	2	5	0.6	100	4	3.5	200	300	10		10	0.001
BC177B	50	45	5	0.6	0.2				0.1	20	180	460	2	5	0.6	100	4	3.5	200	300	10		10	0.001
BC177C	50	45	5	0.6	0.2				0.1	20	380	800	2	5	0.6	100	4	3.5	200	300	10		10	0.004
BC178	30	25	5	0.6	0.2				0.1	20	120	800	2	5	0.6	100	4	3.5	200	300	10		10	0.001
BC178A	30	25	5	0.6	0.2				0.1	20	120	220	2	5	0.6	100	4	3.5	200	300	10		10	0.001
BC178B	30	25	5	0.6	0.2				0.1	20	180	460	2	5	0.6	100	4	3.5	200	300	10		10	0.001
BC178C	30	25	5	0.6	0.2				0.1	20	380	800	2	5	0.6	100	4	3.5	200	300	10		10	0.001
BC179	25	20	5	0.6	0.2				0.1	20	180	800	2	5	0.6	100	4	3.5	200	300	10		4	0.001
BC179A	25	20	5	0.6	0.2				0.1	20	120	200	2	5	0.6	100	4	3.5	200	300	10		4	0.001
BC179B	25	20	5	0.6	0.2				0.1	20	180	460	2	5	0.6	100	4	3.5	200	300	10		4	0.001
BC179C	25	20	5	0.6	0.2				0.1	20	380	800	2	5	0.6	100	4	3.5	200	300	10		4	0.001
BC393	180	180	6	0.4	0.5		0.05	100			50		10	10	0.3	0.9	7	3.5	50	110	200	20		
BCX23	125	125	5	0.45	0.8	1			0.1	100	63		100	1	0.9	1.4	12		100		10			
BCY70	50	40	5	0.35	0.2		0.01	40			60		0.01	1	0.25	0.6	6		250		10	420	6	0.015
											80		0.1	1	0.5	1.2								
											100		1	1										
											100		10	1										
											45		50	1										
BCY71	45	45	5	0.35	0.2		0.5	45			60		0.01	1	0.25	0.6	6		250		10		2	0.015
											80		0.1	1	0.5	1.2								
											100		1	1										
											100	400	10	1										
											45		50	1										
BCY71A	45	45	5	0.35	0.2		0.5	45			40		0.01	1	0.25	0.6	6		300		10	420	2	0.015
											80		0.1	1	0.5	1.2								
											90		1	1										
											100	600	10	1										
BCY72	25	25	5	0.35	0.2		0.5	25			60		0.01	1	0.25		6		250		10	420	6	0.015
											80		0.1	1	0.5	50								
											100		1	1										
											100		10	1										
											45		50	1										
BCY78-7	# 32	32	5	0.345	0.2				0.1	32	120	220	2	5	0.25	0.6	7		180		10	800	6	0.001
											80		10	1	0.8	0.7								
											40		100	1										
BCY78-8	# 32	32	5	0.345	0.2				0.1	32	30		0.01	5	0.25	6	7		180		10	800	6	0.001
											180	310	2	5	0.8	0.7								
											120	400	10	1										
											45		100	1										

# NOTE: V<sub>CEs</sub>

# TO-18 Metal-Can Package Transistors (PNP)



Maximum Ratings							Electrical Characteristics (Ta=25°C, Unless Otherwise Specified)																		
Type No.	V <sub>CB0</sub> (V)	V <sub>CE0</sub> (V)	V <sub>EB0</sub> (V)	P <sub>D</sub> (W)	I <sub>C</sub> (A)	I <sub>CM</sub> (A)	I <sub>CB0</sub> (μA)	V <sub>CB</sub> (V)	I <sub>CES</sub> (μA)	V <sub>CE</sub> (V)	h <sub>FE</sub>	β	I <sub>C</sub> & (mA)	V <sub>CE</sub> (V)	V <sub>CE(SAT)</sub> (V) &	V <sub>BE(SAT)</sub> (V) &	I <sub>C</sub> (mA)	C <sub>ob</sub> (pF)	f <sub>T</sub> (MHz)	β	I <sub>C</sub> (mA)	t <sub>on</sub> (ns)	NF @ Freq (dB) (MHz)		
	Min	Min	Min	@Tc=25°C			Max	@	Max	@	Min	Max	Min	Max	Max	Min	Max	Min	Max	Typ	Min	Typ	Max	Max	
BCY78-9	# 32	32	5	0.345	0.2				0.1	32	40		0.01	5	0.25	0.6	0.85	10	7		180	10	800	6	0.001
											250	460	2	5	0.8	0.7	1.2	100							
											160	630	10	1											
											60		100	1											
BCY78-10	# 32	32	5	0.345	0.2				0.1	32	100		0.01	5	0.25	0.6	0.85	10	7		180	10	800	6	0.015
											380	630	2	5	0.8	0.7	1.2	100							
											240	1000	10	1											
											60		100	1											
BCY79	# 45	45	5	0.345	0.2				0.1	45	120	630	2	5	0.8	0.7	1.2	100	7	3.5	180	10	800	6	0.001
															0.25	0.6	0.85	10							
BCY79-7	# 45	45	5	0.345	0.2				0.1	45	120	220	2	5	0.25	0.6	0.85	10	7		180	10	800	6	0.001
											80		10	1	0.8	0.7	1.2	100							
											40		100	1											
BCY79-8	# 45	45	5	0.345	0.2				0.1	45	30		0.01	5	0.25	0.6	0.85	10	7		180	10	800	6	0.001
											180	310	2	5	0.8	0.7	1.2	100							
											120	400	10	1											
											45		100	1											
BCY79-9	# 45	45	5	0.345	0.2				0.1	45	40		0.01	5	0.25	0.6	0.85	10	1		180	10	800	6	0.001
											250	460	2	5	0.8	0.7	1.2	100							
											160	630	10	1											
											60		100	1											
BCY79-10	# 45	45	5	0.345	0.2				0.1	45	100		0.01	5	0.8	0.7	1.2	100	7	3.5	180	10	800	6	0.007
											380	630	2	5	0.25	0.6	0.85	10							
											240	1000	10	1											
											60		100	1											
BFX37	# 90	80	6	0.36	0.1				0.01	70	125		10	5	0.4		0.95	50	6	4.5	40	70	0.5	3	
											125	280	1	5	0.25		0.9	10							
											125		0.1	5											
											70	300	0.01	5											
CF103		30	5	1.8	0.25		1	50			40	300	150	5	0.4		150	8		200		50			
															1.6		500								

#NOTE: V<sub>CES</sub>