



LOW LEVEL AMPS

NPN Transistors

Type No.	Case Style	V <sub>CB0</sub> (V) Min	V <sub>CE0</sub> (V) Min	V <sub>EB0</sub> (V) Min	I <sub>CBO</sub> (nA) Max	V <sub>CB</sub> (V) @ Min	h <sub>FE</sub> (1kc)* h <sub>FE</sub> Min	I <sub>C</sub> @ (mA)	V <sub>CE</sub> (V) &	V <sub>CE(sat)</sub> (V) Max	V <sub>BE(sat)</sub> (V) & Min	V <sub>BE(sat)</sub> (V) Max	I <sub>C</sub> @ (mA)	C <sub>ob</sub> (pF) Max	f <sub>T</sub> (MHz) Min	f <sub>T</sub> (MHz) Max	I <sub>C</sub> @ (mA)	t <sub>off</sub> (ns) Max	NF (dB) Max	Test Condition	Process No.
2N760	TO-18	45	45	8	200	30	76	333*	1	5	1	0.6	1.1	10	8	50	1				07
2N760A	TO-18	60	60	8	100	30	76	333*	1	5	1	0.9	1.1	10	8	50	1				07
JAN2N760A	TO-18	75	60	8	10	30	76	333*	1	5	1	0.6	1.1	10	6	60	1		24	1	07
2N929	TO-18	45	45	4	10	45	40	120	0.01 μA	5	1	0.6	1.1	10	8	30	0.5		4	5	07
							60	0.5 μA	5												
							350	10	5												
JAN2N929	TO-18	60	45	6	10	45	40	120	0.01 μA	5	1	0.6	1.1	10	8	45	180	0.5	5	3	07
							60	0.5 μA	5										3	4	
							350	10	5										3	2	
JANTX2N929	TO-18	65	45	6	10	45	40	120	0.01	5	1	0.6	1	10	8	45	180	0.5	5	3	07
							60	0.5	5										3	4	
							350	10	5										3	2	
JANTXV2N929	TO-18	65	45	6	10	45	40	120	0.01	5	1	0.6	1	10	8	45	180	0.5	5	3	07
							60	0.05	5										3	4	
							350	10	5										3	2	
2N929A	TO-18	60	45	6	2	45	25	0.001	5	0.5	0.7	0.9	10	6	45	0.5			4	2	07
							40	0.01	5												
							60	0.5	5												
							350	10	5												
2N930	TO-18	45	45	5	10	45	100	300	0.01	5	1	0.6	1	10	8	30	0.5		3	5	07
							150	0.5	5												
							600	10	5												
JAN2N930	TO-18	60	45	6	10	45	100	300	0.01	5	1	0.6	1	10	8	45	180	0.5	5	3	07
							150	0.5	5										3	4	
							600	10	5										3	2	
JANTX2N930	TO-18	60	45	6	10	45	100	300	0.01	5	1	0.6	1	10	8	45	180	0.5	5	3	07
							150	0.5	5										3	4	
							600	10	5										3	2	
JANTXV2N930	TO-18	60	45	6	10	45	100	300	0.01	5	1	0.6	1	10	8	45	180	0.5	5	3	07
							150	0.5	5										3	4	
							600	10	5										3	2	
2N930A	TO-18	60	45	6	2	45	60	0.001	5	0.5	0.7	0.9	10	6	45	0.5			3	2	07
							100	0.01	5												
							150	0.5	5												
							600	10	5												
2N981	TO-18	80	80	8	1.0 μA	30	36	100*	1	5	3			10	5						07

Test Conditions:

- I<sub>C</sub> = 1.0 mA, V<sub>CB</sub> = 5V, R<sub>G</sub> = 500Ω, f = 1 kHz
- I<sub>C</sub> = 10 μA, V<sub>CE</sub> = 5V, R<sub>G</sub> = 10 kΩ, f = 10 kHz
- I<sub>C</sub> = 10 μA, V<sub>CE</sub> = 5V, R<sub>G</sub> = 10 kΩ, f = 100 Hz
- I<sub>C</sub> = 10 μA, V<sub>CE</sub> = 5V, R<sub>G</sub> = 10 kΩ, f = 1 kHz
- I<sub>C</sub> = 10 μA, V<sub>CE</sub> = 5V, R<sub>G</sub> = 10 kΩ, BW = 15.7 kHz
- I<sub>C</sub> = 5 μA, V<sub>CE</sub> = 5V, R<sub>G</sub> = 50 kΩ, f = 1 kHz
- I<sub>C</sub> = 5 μA, V<sub>CE</sub> = 5V, R<sub>G</sub> = 50 kΩ, f = 10 kHz
- V<sub>CE</sub> = 5V, I<sub>C</sub> = 100 μA, R<sub>G</sub> = 10 kΩ, W.B.
- V<sub>CE</sub> = 5V, I<sub>C</sub> = 30 μA, R<sub>G</sub> = 100 kΩ, f = 1 kHz
- I<sub>C</sub> = 20 μA, V<sub>CE</sub> = 5V, R<sub>S</sub> = 22 KΩ, W.B.
- I<sub>C</sub> = 20 μA, V<sub>CE</sub> = 5V, R<sub>S</sub> = 10 KΩ, f = 1 kHz
- I<sub>C</sub> = 100 μA, V<sub>CE</sub> = 5V, R<sub>G</sub> = 5 KΩ, W.B.
- I<sub>C</sub> = 100 μA, V<sub>CE</sub> = 4.5V, R<sub>G</sub> = 5 KΩ, W.B.