

Bipolars

T-31-21

RF and DC Specifications

Low Noise Devices

Series	Part Number	ELECTRICAL CHARACTERISTICS														ELECTRICAL CHARACTERISTICS							ABSOLUTE MAXIMUM RATINGS			
		MAG				NF _{OPT}				G _A	S _{21E} ²				f _T	h _{FE}				V _{CEO}	I _C	P _T	T _J			
		V _{CL}	I _C	f	(dB)	V _{CE}	I _C	f	(dB)		V _{CL}	I _C	f	(dB)		V _{CE}	I _C	MIN	TYP					MAX		
		(V)	(mA)	(GHz)	TYP	(V)	(mA)	(GHz)	TYP	(dB)	(V)	(mA)	(GHz)	TYP	(GHz)	(V)	(mA)				(V)	(mA)	(W)	(°C)		
NE219	NE21935	8	20	1.0	18.4	8	5	2.0	2.2	9	8	20	2.0	9.0	8.0	8	20	30	80	300	10	80	0.58			
NE645	NE64535	8	10	2.0	15	8	7	2.0	1.6	11	8	20	2.0	11	8.5	8	7	50	100	250	12	65	0.40			
NE680	NE68030					3	5	2.0	1.9		3	5	2.0	7.5	8.5	3	5	50		250	10	35	0.15	150		
	NE68033	6	10	2.0	10	6	5	2.0	1.8	9	6	10	2.0	8.0	10	6	10	50	100	250	10	35	0.20			
	NE68035	6	10	4.0	10	6	5	4.0	2.6	8	6	10	4.0	7.5	10	6	10	50	100	250	10	35	0.58			
	NE68039	6	10	2.0	10	6	5	2.0	1.8	11	6	10	2.0	8.0	10	6	10	50	100	250	10	35	0.20			
NE681	NE68130					3	7	1.0	1.4		3	7	1.0	12	7.0	3	7	40		240	10	65	0.15	150		
	NE68133	8	20	1.0	15.5	8	7	1.0	1.2	13	8	20	1.0	13	9.0	8	20	50	100	250	10	65	0.20			
	NE68135	8	20	2.0	14	8	7	2.0	1.6	12	8	20	2.0	11	9.0	8	20	50	100	250	10	65	0.29			
	NE68139	8	20	1.0	17	8	7	1.0	1.2	14	8	20	1.0	15	9.0	8	20	50	100	250	10	65	0.20			
NE856	NE85630					3	7	1.0	1.2		3	7	1.0	9.0	4.5	3	5	40	110	250	12	100	0.15	150		
	NE85633	10	20	1.0	12	10	7	1.0	1.6	9	10	20	1.0	11.5	7.0	10	20	50	120	300	12	100	0.20			
	NE85635	10	20	2.0	12	10	7	2.0	2.1	10	10	20	2.0	9.0	7.0	10	20	50	120	300	12	100	0.58			
	NE85639	10	20	1.0	15	10	7	1.0	1.5	12	10	20	1.0	13	7.0	10	20	50	120	300	12	100	0.20			

General Purpose NPN Devices

NE021	NE02130					10	5	1.0	1.5		10	20	1.0	11	5.0	10	20	40	100	200	12	70	0.15	150	
	NE02133	10	20	0.5	17.5	10	3	0.5	1.5	11	10	20	0.5	15	4.5	10	20	20	70	250	12	70	0.15		
	NE02135	10	20	2.0	11	10	3	2.0	2.7	9	10	20	2.0	5.7	4.5	10	20	30	70	250	12	70	0.29		
	NE02139	10	20	1.0	14	10	5	1.0	1.5	12	10	20	1.0	10	4.5	10	20	40	100	200	12	70	0.25		
	NE02139B	10	20	1.0	14	10	5	1.0	1.5	11	10	20	1.0	10	4.0	10	5	40	100	200	12	30	0.20		
NE578	NE57835	8	10	2.0	12	8	3	2.0	2.4	11	8	10	2.0	9.0	6.0	8	10	30	100	200	11	30	0.25		
NE734	NE73430					10	5	0.9	4.0		10	10	1.0	8.0	2.3	10	5	40	100	180	14	50	0.15	150	
	NE73433	10	10	0.5	15	10	3	0.5	3.0	15	10	10	0.5	11	2.0	10	10	25	80	200	14	50	0.20		
	NE73435	10	10	1.0	13.3	10	3	0.5	2.1	16	10	10	1.0	9.3	3.0	10	10	25	80	200	14	50	0.25		
	NE73439	10	10	0.5	17	10	3	0.5	3.0	15	10	10	0.5	12	2.0	10	5	40	100	180	14	50	0.15		
	NE73439B	10	10	0.5	16	10	3	0.5	3.0	15	10	10	0.5	11	2.0	10	5	40	100	180	14	50	0.15		

General Purpose PNP Devices

NE593	NE59335	-10	-10	0.5	12.5	-10	-3	0.5	2.4	8.5	-10	-10	0.5	10.5	2.5	-10	-10	20	60	200	-12	-30	0.25		
NE889	NE88933	-10	-15	1.0	9.3	-10	-3	1.0	3.0	8	-10	-15	1.0	8.0	4.0	-10	-15	20	90	200	-12	-50	0.20		
	NE88935	-10	-20	1.0	12.0	-10	-3	1.0	2.5	10	-10	-20	1.0	10.0	4.0	-10	-15	20	90	200	-12	-50	0.25		

Medium Power Devices

NE416	NE41635	10	30	0.5	21	10	5	0.5	1.5	15	10	30	0.5	16	3.5	10	50	30	100	200	18	100	0.60		
NE461	NE46134	10	50	1.0	9	10	50	1.0	2.0		10	50	1.0	7.3	6.0	10	50	40		200	15	250	2.00	150	
NE467	NE46734	10	30	0.5	15	10	30	0.5	2.4	12	10	50	0.5	12.5	4.0	10	50	30	100	200	18	150	2.00		
NE856	NE85634	10	20	1.0	11	10	40	1.0	1.8	9	10	20	1.0	9.0	6.5	10	20	50	120	300	12	100	2.00		

Special Purpose Devices: Low Voltage—Low Current

NE683	NE68330					1	25	1.0	3.0		1	25	1.0	6.5	4.0	1	0.25	50	100	250	8	5	0.05	150	
	NE68333	1	1	1.0	12.5	1	25	1.0	3.0	5.5	1	1	1.0	6.5	4.0	1	0.25	50	100	250	8	5	0.05		
	NE68339	1	1	1.0	14.5	1	25	1.0	3.0	5.5	1	1	1.0	8.5	4.0	1	0.25	50	100	250	8	5	0.05		
	NE68339B	1	1	1.0	13.5	1	25	1.0	3.0	4.5	1	1	1.0	7.5	4.0										