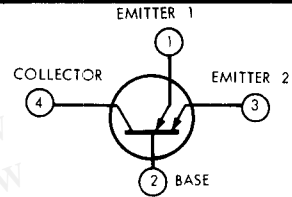


DUET[®] DUAL EMITTER SEPT[®] TRANSISTORS

These dual-emitter PNP silicon planar epitaxial transistors are specifically designed for low-level high speed chopper and commutating applications. They feature high voltage ratings, low offset voltages, low emitter capacitances and excellent thermal characteristics. They are supplied in a four lead TO-72 package.



Type No.	MAXIMUM RATINGS							CHARACTERISTICS							
	P _D @ 25 C (mW)	Junc. Temp. (°C)	V _{EEO} (Volts)	V _{EBO} (Volts)	V _{EEO} (Volts)	V _{CBO} (Volts)	I _{EEO} (nA)	V _O ♦ (μV)	ΔV _{O(I_B)} ♦ (μV)	ΔV _{O(I_T)} ♦ (μV)	r _{e1e2} (ohms)	C _{ib} (pF)	C _{ob} (pF)	f _T (MHz)	
3N90	300	200	30	30	30	50	1	50	25	75	100	3	10	6	
3N91	300	200	30	30	30	50	1	100	25	125	100	3	10	6	
3N92	300	200	30	30	30	50	1	200	50	175	100	3	10	6	
3N93	300	200	50	50	50	50	1	50	25	75	75	3	10	6	
3N94	300	200	50	50	50	50	1	100	50	125	75	3	10	6	
3N95	300	200	50	50	50	50	1	200	75	175	100	3	10	6	
*3N107	300	200	50	50	50	60	5	250	125	—	100	6	—	—	
3N123	100	200	25	25	25	30	1	250	100	100	100	3	10	6	



♦I_{B(1)} = 0.5mA, I_{B(2)} = 1.5mA, ♦T_{A(1)} = -25°C, T_{A(2)} = +100°C, I_B = 1mA
 * 3N107 pinned differently than other devices. Pin 1 = emitter 1, pin 2 = base, pin 3 = collector, pin 4 = emitter 2.

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 勝特力电子(上海) 86-21-34970699
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[Http://www.100y.com.tw](http://www.100y.com.tw)

LOW NOISE AMPLIFIERS/SWITCHES

Type No.	POLARITY	P _D @ 25 C (mW) Max.	MAX. RATINGS			I _{CBO} nA Max.	h _{FE} @ I _C = 10μA	Saturation Voltage (Max.)				f _T Min. (MHz)	C _{ob} Max. (pF)	N.F. Max. (dB)
			V _(BR) CBO Volts	V _(BR) CEO Volts	V _(BR) EBO Volts			I _C (mA)	I _B (mA)	V _{CE} Volts	V _{BE} Volts			
2N4383	NPN	800	40	30	5	10	100-500	10	1	0.20	0.80	30	8	2
2N4385	NPN	800	40	30	5	10	40-500	10	1	0.20	0.80	30	8	3
2N4412	PNP	600	40	30	5	10	100-500	10	1	0.20	0.80	20	8	2
2N4412A	PNP	600	60	60	5	10	100-500	10	1	0.20	0.80	20	8	2
2N4414	PNP	600	40	30	5	10	40-500	10	1	0.20	0.80	20	8	2
2N4414A	PNP	600	60	60	5	10	40-500	10	1	0.20	0.80	20	8	2
2N2483	NPN	400	60	60	6	10	40-120	1	0.1	0.35	0.70	60	6	4
2N2484	NPN	400	60	60	6	10	100-500	1	0.1	0.35	0.70	60	6	3
2N4384	NPN	500	40	30	5	10	100-500	10	1	0.20	0.80	30	8	2
2N4386	NPN	500	40	30	5	10	40-500	10	1	0.20	0.80	30	8	3
2N4413	PNP	400	40	30	5	10	100-500	10	1	0.20	0.80	20	8	2
2N4413A	PNP	400	60	60	5	10	100-500	10	1	0.20	0.80	20	8	2
2N4415	PNP	400	40	30	5	10	40-500	10	1	0.20	0.80	20	8	2
2N4415A	PNP	400	60	60	5	10	40-500	10	1	0.20	0.80	20	8	2



HIGH-CURRENT CORE DRIVERS

Type No.	POLARITY	P _D @ 25 C Watts Max.	MAX. RATINGS			I _{CBO} μA Max.	h _{FE} @ I _C = 100mA	h _{FE} @ I _C = 500mA	h _{FE} @ I _C = 800mA	Saturation Voltage(Max)				f _T Min. MHz	C _{ob} pF Max.
			V _(BR) CBO Volts	V _(BR) CEO Volts	V _(BR) EBO Volts					I _C mA	I _B mA	V _{CE} Volts	V _{BE} Volts		
2N3724	NPN	3.5	50	30	6	1.7	60-150	35	25	500	50	0.42	1.2	300	12
2N3725	NPN	3.5	80	50	6	1.7	60-150	35	20	500	50	0.52	1.2	300	10
2N4013	NPN	1.2	50	30	6	1.7	60-150	35	25	500	50	0.42	1.2	300	12
2N4014	NPN	1.2	80	50	6	1.7	60-150	35	20	500	50	0.52	1.2	300	10

