

Applications	Type No		Maximum Ratings				Electrical Characteristics (Ta=25°C)													Package																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			NPN		PNP		V _{CE0} (V)	I _C (mA)	P _C (mW)	h _{FE}	(MIN)		V _{CE(sat)}		I _C (mA)	I _B (mA)	f _T (MHz)	(TYP) MIN				NF (dB)	MAX		Fig																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	NPN	PNP	V _{CE} (V)	I _C (mA)	V _{CE} (V)	I _C (mA)					V _{CE} (V)	I _C (mA)	I _E (mA)	f _T (MHz)				V _{CE} (V)	I _E (mA)	R _B (Ω)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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*: I_E = I_C; V_{CE} = V_{CE}

Applications	Type No		Maximum Ratings				Electrical Characteristics (Ta = 25°C)												Package	
			NPN		PNP		h _{FE}	(MIN)		MAX		f _T (MHz)	MIN		MAX					
	V _{CE} (V)	I _C (mA)	P _C (mW)	V _{CE} (V)	I _C (mA)	V _{CE} (V)		I _C (mA)	I _B (mA)	V _{CE} (V)	I _C (mA)		G _{FE} (dB)	V _{CE} (V)	I _C (mA)	f (MHz)				
VHF RI	KTC2348	—	50	20	250	20~200	10	2	—	—	—	—	400	10	2	20~28	10	0	F3	
	2SC3882S	—	15	50	150	40~200	3	8	—	—	—	—	650	10	8	*1.3	*10	—	F1	
	KTC2349	—	15	50	250	(20)	3	8	—	—	—	—	600	10	8	*1.5	*10	—	F3	
UHF/SH, UHF RI	BFQ31	—	15	100	200	(20)	1	3	0.4	10	1	—	600	10	4	*1.7	*10	—	F1	
	KTC2347	—	15	50	250	(20)	3	8	—	—	—	—	650	10	8	*1.5	*10	—	F3	
	KTC3120S	—	15	50	150	40~200	10	5	—	—	—	—	1,500	10	2	*0.9	10	—	F1	
UHF OSC	KTC3121S	—	15	50	150	60~120	1	8	—	—	—	—	1,100	10	8	*1.3	*10	—	F1	

V A PH	2SC3881S	—	25	50	150		20~200	10	10	0.2	15	1.5	—	250	10	10	*1.6	*10	—	1
	2SC3196	—	40	50	250		(10)	10	4	—	—	—	—	400	10	4	32~40	12	4	1
	2SC3197	—	25	50	300		20~200	12.5	12.5	0.2	15	1.5	—	300	12.5	12.5	28~36	12.5	12.5	45

*C_{ob}, *C_{ce}, *V_{CE}

Applications	Type No		Maximum Ratings				Electrical Characteristics (Ta = 25°C)										Package		
			V _{CEO} (V)	I _C (A)	P _C (W)	h _{FE}	h _{FE}		V _{CE(sat)} (V)	MAX		f _T (MHz)	TYP		C _{ob} (pF)	TYP			
	V _{CE} (V)	I _C (mA)					I _C (mA)	I _B (mA)		V _{CE} (V)	I _C (mA)		V _{CE} (V)	I _C (mA)					
	NPN	PNP																Fig	
TV Vertical Output	2SC3205	2SA1273	30	2	1	100~320	2	500	2.0	1.5A	30		120	2	500	30	10	1	F4
	2SC4369	2SA1658	30	1	1.5	40~400	2	500	0.8	2A	0.2A		100	2	500	35	10	1	F7
	2SC4368	2SA1657	150	1.5	20	40~140	10	500	1.5	300	50		4	10	500	35	10	1	F7
	2SD2058A	—	60	3	2.5	60~300	5	500	1.0	3A	0.3A		3.0	5	500	70	10	1	F7
	—	2SB1366	60	3	2.5	60~300	5	500	1.0	3A	0.3A		9	5	500	150	10	1	F7
	2SC3230	2SA1276	30	3	10	70~240	2	500	0.8	2A	0.2A		100	2	500	35	10	1	F6
	2SD1351A	—	60	3	2.5	60~300	5	500	1.0	3A	0.3A		3.0	5	500	70	10	1	F6
	—	2SB988	60	3	30	60~200	5	500	1.0	3A	0.3A		9	5	500	150	10	1	F6
	KTC2073	KTA940	150	1.5	25	40~140	10	500	1.5	500	50		4	10	500	35	10	1	F6

Applications	Type No		Maximum Ratings			Electrical Characteristics (Ta=25°C)										Package			
						h _{FE}	(MIN)		V _{CE(sat)} (V)	MAX		f _T (MHz)	(TYP)		C _{ob} (pF)			(TYP) MAX	
	V _{CEO} (V)	I _C (A)	P _C (W)	V _{CE} (V)	I _C (mA)		I _B (mA)	V _{CE} (V)		I _C (mA)	V _{CB} (V)		f (MHz)						
	NPN	PNP														Fig			
TV Horizontal Output	2SC3231	—	60	4	*40	30~150	5	1A	1.0	4A	0.4A	5	0.5A	—	—	TO-220AB	F6		
	KTC2233H	—	60	4	*35	30~150	5	1A	1.0	4A	0.4A	5	0.5A	—	—	TO-220IS	F7		
	KTD1069	—	150	7	*40	(10)	1.5	5A	1.5	5A	0.5A	10	0.2A	—	—	TO-220AB	F6		
	*KTD1427	—	600	5	*80	(8)	5	1A	5	4A	0.8A	10	0.1A	(165)	10	1	TO-3PH/BS	F10	
	KTD1554	—	600	3.5	*40	(8)	5	0.5A	8	3A	0.8A	10	0.1A	(95)	10	1	TO-3P(S)	F11	
	KTD1555	—	600	5	*50	(8)	5	1A	5	4A	0.8A	10	0.1A	(165)	10	1	TO-3P(S)	F11	
*8U908A	—	700	8	*60	—	—	—	1	4.5A	2A	2A	5	0.1A	(125)	10	1	TO-3P(S)	F11	
Video Output	2SC3206	KTA949	150	0.05	0.8	70~240	5	10	0.5	10	1	(120)	30	10	5	10	1	TO-92L	F4
	2SC3207	—	300	0.1	0.9	(20)	10	4	1.0	10	1	50	10	20	(3.0)	20	1	TO-92L	F4
	2SC3229	—	300	0.05	1.5	(20)	10	0.5	1.0	10	1	75	20	20	4.0	20	1	TO-202	F8
	2SC3208	—	300	0.15	*12.5	40~170	10	50	1.0	100	20	40	10	30	6.5	50	1	TO-120AB	F6
	KTC1569I	—	300	0.15	*12.5	40~170	10	50	1.0	100	20	100	10	30	5.0	50	1	TO-220IS	F7
	TV Sound Output	2SC3203	2SA1271	30	0.8	0.6	100~120	3	100	0.5	500	20	(120)	5	10	(13)	10	1	TO-92(C)
2SC3228		2SA1275	160	1	0.9	60~120	5	200	1.5	500	50	20	5	200	20	10	1	TO-92L	F4
2SC3205		2SA1273	30	2	1	100~120	2	500	2.0	1.5A	30	(120)	2	500	(30)	10	1	TO-92L	F4
2SC4369		2SA1658	30	3	*15	40~400	2	500	0.5	2A	0.2A	(100)	2	500	(35)	10	1	TO-220IS	F7
2SD3058A		—	60	3	*25	60~300	5	500	1.0	3A	0.3A	(3.0)	5	500	(70)	10	1	TO-220IS	F7
—		2SB1366	60	3	*25	60~300	5	500	1.0	3A	0.3A	(9)	5	500	(150)	10	1	TO-220IS	F7
2SC3230		2SA1276	30	3	*10	70~240	2	500	0.8	2A	0.2A	(100)	2	500	(35)	10	1	TO-220AB	F6
2SD1351A		—	60	3	*25	60~300	5	500	1.0	3A	0.3A	(3.0)	5	500	(70)	10	1	TO-220AB	F6
—		2SB988	60	3	*30	60~200	5	500	1.0	3A	0.3A	(9)	5	500	(150)	10	1	TO-220AB	F6
KTC2230		—	160	0.1	0.8	120~400	10	10	0.5	50	5	50	10	10	7.0	10	1	TO-92L	F4
KTC2230A		—	180	0.1	0.8	120~400	10	10	0.5	50	5	50	10	10	7.0	10	1	TO-92L	F4
KTC2231		—	160	0.2	*12	100~120	10	50	1.0	200	20	50	10	50	10	10	1	TO-202	F8
KTC2231A	—	180	0.2	*12	100~120	10	50	1.0	200	20	50	10	50	10	10	1	TO-202	F8	
KTC2483	—	160	1.5	*15	100~120	5	200	1.0	500	50	40	5	200	20	10	1	TO-202	F8	

Applications	Type No		Maximum Ratings Tc = 25°C					Electrical Characteristics (Ta = 25°C)										Package	Fig	
			Vcfo (V)	Ic (A)	(P) Pc (W)	hFE	(MIN)		VCE(sat) MAX		VCE(sat)		MAX		SW time (TYP) MAX					
	VCE (V)	IC (A)					IC (A)	IB (A)	IC (A)	IB (A)	IC (A)	IB (A)	tON (μs)	tOFF (μs)	tT (μs)					
Switching Regulator		NPN	—																	
		2SC4371	—	400	5	30	(12)	5	3	1.0	5	1	5	1	*1.0	2.5	1.0	TO-220IS	F7	
		KTD1947	—	100	10	30	(500)	1	1	0.3	5	0.05	5	0.05	(0.5)	(5.0)	(1.0)	TO-220IS	F7	
		KTC3148	—	800	3	40	(10)	5	0.8	0.6	0.8	0.16	0.8	0.16	*1.0	4.0	1.0	TO-220AB	F6	
		KTC2553	—	400	5	40	(12)	5	3	1.0	5	1	5	1	*1.0	2.5	1.0	TO-220AB	F6	
		KTC2200	—	400	7	40	(10)	5	3	1.5	3	0.3	3	0.3	*1.0	2.0	1.0	TO-3P(S)	F11	
		KTC2791	—	800	5	100	(10)	5	10mA	1.0	3	0.6	3	0.6	*1.0	3.5	1.0	TO-3P(L)	F12	
		KTC2650	—	400	10	100	(10)	5	5	1.5	5	0.5	5	0.5	*1.0	2.5	1.0	TO-3P(L)	F12	
		KTC3680	—	800	7	120	(10)	5	10mA	1.0	3	0.6	3	0.6	*1.0	3.5	1.0	TO-3P(L)	F12	
		BUV48A	—	450	15	(150)	—	—	—	1.5	8	1.6	8	1.6	1	3	0.8	TO-3P(L)	F12	
Darlington		BUV48C	—	700	15	(175)	—	—	—	1.5	6	1.5	6	1.5	1	3	0.7	TO-3P(L)	F12	
		KTD686	—	80	4	30	(2000)	2	1	1.5	3	6mA	3	6mA	0.2	1.5	0.6	TO-220AB	F6	
		BU806	—	200	8	(60)	—	—	—	1.5	5	0.05	5	0.5	0.35	0.55	0.2	TO-220AB	F6	

* I_B

Applications	Type No		Electrical Characteristics (Ta = 25°C)														Package	Fig		
			Maximum Ratings			Electrical Characteristics														
			V _{CEO} (V)	I _C (mA)	P _D (mW)	h _{FE}	(MIN)		V _{CE(sat)} (V)	MAX		f _T (MHz)	MIN		SW Time				MAX	
NPN	PNP					V _{CE} (V)	I _C (mA)	I _C (mA)	I _B (mA)		V _{CE} (V)	I _C (mA)	t _{on} (ns)	t _d (ns)	t _r (ns)	t _{ag} (ns)	t _f (ns)			
Switching	2N3904	2N3906	40	200	625	*100~300	1.0	10		1.0	300	20	10	—	35	35	200	50	TO-92(B)	F3
	—	2N5401	150	600	625	* 60~240	5.0	1.0		1.0	100	10	10	—	—	—	—	—	TO-92(B)	F3
	2N5551	—	160	600	625	* 80~250	5.0	10		5.0	100	10	10	—	—	—	—	—	TO-92(B)	F3
	KTN2369	—	15	500	625	* 40~120	1.0	10		1.0	500	10	10	12	—	—	13	—	TO-92(B)	F3
	KTN2369A	—	15	500	625	* 40~120	1.0	10		1.0	500	10	10	12	—	—	13	—	TO-92(B)	F3
	KTN2222	KTN2907	30	600	625	(50)	10	1.0		15	250	20	20	—	10	25	225	60	TO-92(B)	F3
	KTN2222A	KTN2907A	40	600	625	(50)	10	1.0		15	300	20	20	—	10	25	225	60	TO-92(B)	F3
	—	*MPSA92	100	500	625	*125	10	1.0		2.0	50	20	10	—	—	—	—	—	TO-92(B)	F3
	—	*MPSA93	200	500	625	*125	10	1.0		2.0	50	20	10	—	—	—	—	—	TO-92(B)	F3

* Pulse width ≤ 100μs. Duty ≤ value 20%

Applications	Type No	Maximum Ratings				Electrical Characteristics (Ta = 25°C)											Package					
		NPN		PNP		V _{CEO} (V)	I _C (A)	P _C (W)	h _{FE}	V _{CE} (sat)		MAX		f _T (MHz)	TYP				C _{ob} (pF)	TYP		
										V _{CE} (V)	I _C (mA)	I _C (mA)	I _B (mA)		V _{CE} (V)	I _C (mA)				V _{CE} (V)	f (MHz)	
27MHz Drive Output	KTC2036A	—		—		80	1	1.2	100	2	150	0.7	500	20	150	10	100	12	10	1	TO-202	F8
	KTC2075	—		—		80	4	*10	25	5	0.5A	1.5	3A	0.3A	100	5	500	40	V _{CE1} = 10	1	TO-220AB	16
High B Low V _{CE} (sat)	KTC3112	—		—		50	0.15	0.4	600~3600	6	2	0.25	100	10	250	10	10	3.5	10	1	TO-92L	F3
	KTD1582	—		—		50	1	1	800~3200	5	0.3A	0.3	0.3A	5	250	10	(0.5A)	18	10	1	TO-92L	14
Sireno Flush	2SC3226	—		—		10	2	0.9	140~600	1	0.5A	0.5	2A	50	150	1	0.5A	27	10	1	TO-92L	F4
	2SC4377	—		—		30	2	*1	140~600	1	0.5A	0.5	2A	50	150	1	0.5A	27	10	1	SOT-89	F2
	—	KTA1242		—		20	5	*10	100~320	2	0.5A	1	4A	0.1A	170	2	0.5A	62	10	1	SMIP-3	F13
Mixing	*KTC2878	—		—		20	0.3	0.4	200~1200	2	4	0.3	30	3	30	6	4	4.8	10	1	TO-92(C)	F3

P_C: T_C = 25°C P_C: mounted on ceramic substrate (250mm² × 0.8t)

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