

Applications	Type No		Electrical Characteristics (Ta = 25°C)																			
			Maximum Ratings				Electrical Characteristics															
	NPN	PNP	V _{CE} (V)	I _C (mA)	P _C (mW)	h _{FE}	(MIN)		V _{CE} (sat)		MAX		f _T (MHz)	MIN		G _{FE}		MAX		f(MHz)	Package	
							V _{CE} (V)	I _C (mA)	I _C (mA)	I _B (mA)	V _{CE} (V)	I _C (mA)		V _{CE} (V)	I _C (mA)	(dB)	V _{CE} (V)	I _C (mA)				
VHF RI	KTC2348	—	50	20	250	20~200	10	2	—	—	—	—	400	10	2	20~28	10	0	—	—	0	F3
	2SC3882S	—	15	50	150	40~200	3	8	—	—	—	—	650	10	8	*1.3	*10	—	—	1	F1	
	KTC2349	—	15	50	250	(20)	3	8	—	—	—	—	600	10	8	*1.5	*10	—	—	1	F3	
UHF OSC	BFQ31	—	15	100	200	(20)	1	3	0.4	10	1	600	10	4	*1.7	*10	—	—	—	—	1	F1
	KTC2347	—	15	50	250	(20)	3	8	—	—	—	—	650	10	8	*1.5	*10	—	—	1	F3	
UHF MIX RI	KTC3120S	—	15	50	150	40~200	10	5	—	—	—	—	1,500	10	2	*0.9	10	—	—	800	F1	
UHF OSC	KTC3121S	—	15	50	150	60~120	1	8	—	—	—	—	1,100	10	8	*1.3	*10	—	—	1	F1	

V _A PH	2SC3881S	—	25	50	150	20~200	10	10	0.2	15	1.5	250	10	10	*1.6	*10	—	1	SOT-23	F1
	2SC3196	—	40	50	250	(30)	10	4	—	—	—	400	10	4	32~40	12	4	1	TO-92(C)	F3
	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	TO-92(C)	F3

*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)}	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)		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	TO-92L	F4
	2SC4369	2SA1658	30	1	15	40~400	2	500	0.8	2A	0.2A	100	2	500	35	10	1	TO-220S	F7
	2SC4368	2SA1657	150	1.5	20	40~140	10	500	1.5	500	50	4	10	500	35	10	1	TO-220S	F7
	2SD2058A	—	60	3	25	60~300	5	500	1.0	3A	0.3A	3.0	5	500	70	10	1	TO-220S	F7
	—	2SB1366	60	3	25	60~300	5	500	1.0	3A	0.3A	9	5	500	150	10	1	TO-220S	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
	KTC2073	KTA940	150	1.5	25	40~140	10	500	1.5	500	50	4	10	500	35	10	1	TO-220AB	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 _{CE0} (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)							
TV Horizontal Output	NPN	PNP																	Fig	
	2SC3231	—	60	4	*40	30~150	5	1A	1.0	4A	0.4A	(8)	5	0.5A	—	—	—	—	F6	
	KTC2233H	—	60	4	*35	30~150	5	1A	1.0	4A	0.4A	(8)	5	0.5A	—	—	—	—	F7	
	KTD1069	—	150	7	*40	(10)	1.5	5A	1.5	5A	0.5A	(18)	10	0.2A	—	—	—	—	F6	
	*KTD1427	—	600	5	*80	(8)	5	1A	5	4A	0.8A	(3)	10	0.1A	(165)	10	1	—	—	F10
	KTD1554	—	600	3.5	*40	(8)	5	0.5A	8	3A	0.8A	(3)	10	0.1A	(95)	10	1	—	—	F11
KTD1555	—	600	5	*50	(8)	5	1A	5	4A	0.8A	(3)	10	0.1A	(165)	10	1	—	—	F11	
*8U908A	—	700	8	*60	—	—	—	1	4.5A	2A	(7)	5	0.1A	(125)	10	1	—	—	F11	
Video Output	2SC3206	KTA949	150	0.05	0.8	70~240	5	10	0.5	10	1	(120)	30	10	5	10	1	—	—	F4
	2SC3207	—	300	0.1	0.9	(20)	10	4	1.0	10	1	50	10	20	(3.0)	20	1	—	—	F4
	2SC3229	—	300	0.05	1.5	(20)	10	0.5	1.0	10	1	75	20	20	4.0	20	1	—	—	F8
	2SC3208	—	300	0.15	*12.5	40~170	10	50	1.0	100	20	40	10	30	6.5	50	1	—	—	F6
	KTC1569I	—	300	0.15	*12.5	40~170	10	50	1.0	100	20	100	10	30	5.0	50	1	—	—	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	—	—
2SC3228		2SA1275	160	1	0.9	60~120	5	200	1.5	500	50	20	5	200	20	10	1	—	—	F4
2SC3205		2SA1273	30	2	1	100~120	2	500	2.0	1.5A	30	(120)	2	500	(30)	10	1	—	—	F4
2SC4369		2SA1658	30	3	*15	40~400	2	500	0.5	2A	0.2A	(100)	2	500	(35)	10	1	—	—	F7
2SD3058A		—	60	3	*25	60~300	5	500	1.0	3A	0.3A	(3.0)	5	500	(70)	10	1	—	—	F7
—		2SB1366	60	3	*25	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	*25	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
KTC2230		—	160	0.1	0.8	120~400	10	10	0.5	50	5	50	10	10	7.0	10	1	—	—	F4
KTC2230A		—	180	0.1	0.8	120~400	10	10	0.5	50	5	50	10	10	7.0	10	1	—	—	F4
KTC2231		—	160	0.2	*12	100~120	10	50	1.0	200	20	50	10	50	10	10	1	—	—	F8
KTC2231A	—	180	0.2	*12	100~120	10	50	1.0	200	20	50	10	50	10	10	1	—	—	F8	
KTC2483	—	160	1.5	*15	100~120	5	200	1.0	500	50	40	5	200	20	10	1	—	—	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)	—	—	—	—	8	1.6	8	1.6	1	3	0.8	TO-3P(L)	F12		
Darlington		BUV48C	—	700	15	(175)	—	—	—	—	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)	—	—	—	—	5	0.05	5	0.5	0.35	0.55	0.2	TO-220AB	F6		

* I_B

Applications	Type No		Electrical Characteristics (T _a = 25°C)														Package	Fig	
			Maximum Ratings			Electrical Characteristics													
	NPN	PNP	V _{CEO} (V)	I _C (mA)	P _D (mW)	h _{FE}	(MIN)		V _{CE(sat)} (V)	MAX		f _T (MHz)	SW Time			MAX			
							V _{CE} (V)	I _C (mA)	I _B (mA)	I _C (mA)	I _B (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	10	1.0	300	20	10	35	200	50	TO-92(B)	F3
	—	2N5401	150	600	625	*60~240	5.0	1.0	1.0	1.0	1.0	100	10	10	—	—	—	TO-92(B)	F3
	2N5551	—	160	600	625	*80~250	5.0	10	5.0	5.0	100	10	10	—	—	—	TO-92(B)	F3	
	KTN2369	—	15	500	625	*40~120	1.0	10	1.0	1.0	500	10	10	12	—	13	—	TO-92(B)	F3
	KTN2369A	—	15	500	625	*40~120	1.0	10	1.0	1.0	500	10	10	12	—	13	—	TO-92(B)	F3
	KTN2222	KTN2907	30	600	625	(50)	10	1.0	150	15	250	20	20	—	10	25	60	TO-92(B)	F3
	KTN2222A	KTN2907A	40	600	625	(50)	10	1.0	150	15	300	20	20	—	10	25	60	TO-92(B)	F3
	—	*MPSA92	100	500	625	*125	10	1.0	20	2.0	50	20	10	—	—	—	—	TO-92(B)	F3
	—	*MPSA93	200	500	625	*125	10	1.0	20	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		Pc (W)	h _{FE}	V _{CE} (sat)			I _T (MHz)	TYP		C _{ob} (pF)	TYP					
		V _{CEO} (V)	I _C (A)	I _C (mA)	I _B (mA)			V _{CE} (V)	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-229AB	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-92E	13
	KTD1582	—	—	50	1	1	800~3200	5	0.3A	0.3	0.3A	5	250	10	10	18	10	1	TO-92E	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-1	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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