

Applications	Type No		Maximum Ratings				Electrical Characteristics (Ta = 25°C)														Package	
			NPN	PNP	V _{CE} (V)	I _C (mA)	P _C (mW)	h _{FE}	(MIN)		MAX		f _T (MHz)	MIN		MAX						
	V _{CE} (V)	I _C (mA)							V _{CE} (V)	I _C (mA)	V _{CE} (V)	I _C (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	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		
	KTC3120S	—	—	15	50	150	40~200	10	5	—	—	—	1,500	10	2	*0.9	10	—	800	F1		
UHF OSC	KIC3121S	—	—	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	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	1	TO-92(C)	F3

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

Applications	Type No		Maximum Ratings			Electrical Characteristics (Ta = 25°C)												Package	
			V _{CE} (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 _B (mA)	I _C (mA)	I _B (mA)	V _{CE} (V)	I _C (mA)		V _{CE} (V)	I _C (mA)		f (MHz)			
	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-220IS	F7
	2SC4368	2SA1657	150	1.5	20	40~140	10	500	1.5	300	50	4	10	500	35	10	1	TO-220IS	F7
	2SD2058A	—	60	3	25	60~300	5	500	1.0	3A	0.3A	30	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
	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)		
	NPN	PNP	V _{CEO} (V)	I _C (mA)	P _C (W)		I _{CE} (mA)	I _B (mA)		V _{CE} (V)	I _C (mA)		V _{CB} (V)	f (MHz)			
TV Horizontal Output	2SC3231	—	60	4	*40	30~150	5	1A	1.0	4A	0.4A	(8)	5	0.5A	—	TO-220AB	F6
	KTC2233H	—	60	4	*35	30~150	5	1A	1.0	4A	0.4A	(8)	5	0.5A	—	TO-220IS	F7
	KTD1069	—	150	7	*40	(10)	1.5	5A	1.5	5A	0.5A	(18)	10	0.2A	—	TO-220AB	F6
	*KTD1427	—	600	5	*80	(8)	5	1A	5	4A	0.8A	(3)	10	0.1A	(165)	TO-3PH(BS)	F10
	KTD1554	—	600	3.5	*40	(8)	5	0.5A	8	3A	0.8A	(3)	10	0.1A	(95)	TO-3P(IS)	F11
	KTD1555	—	600	5	*50	(8)	5	1A	5	4A	0.8A	(3)	10	0.1A	(165)	TO-3P(IS)	F11
*8U908A	—	700	8	*60	—	—	—	1	4.5A	2A	(7)	5	0.1A	(125)	TO-3P(IS)	F11	
Video Output	2SC3206	KTA949	150	0.05	0.8	70~240	5	10	0.5	10	1	(120)	30	10	5	TO-92L	F4
	2SC3207	—	300	0.1	0.9	(20)	10	4	1.0	10	1	50	10	20	(3.0)	TO-92L	F4
	2SC3229	—	300	0.05	1.5	(20)	10	0.5	1.0	10	1	75	20	20	4.0	TO-202	F8
	2SC3208	—	300	0.15	*12.5	40~170	10	50	1.0	100	20	40	10	30	6.5	TO-220AB	F6
	KTC1569I	—	300	0.15	*12.5	40~170	10	50	1.0	100	20	100	10	30	5.0	TO-220S	F7
	TV Sound Output	2SC3203	2SA1271	30	0.8	0.6	100~120	3	100	0.5	500	20	(120)	5	10	(13)	TO-92(C)
2SC3228		2SA1275	160	1	0.9	60~120	5	200	1.5	500	50	20	5	200	20	TO-92L	F4
2SC3205		2SA1273	30	2	1	100~120	2	500	2.0	1.5A	30	(120)	2	500	(30)	TO-92L	F4
2SC4369		2SA1658	30	3	*15	40~400	2	500	0.5	2A	0.2A	(100)	2	500	(35)	TO-220IS	F7
2SD3058A		—	60	3	*25	60~300	5	500	1.0	3A	0.3A	(3.0)	5	500	(70)	TO-220IS	F7
—		2SB1366	60	3	*25	60~300	5	500	1.0	3A	0.3A	(9)	5	500	(150)	TO-220IS	F7
2SC3230		2SA1276	30	3	*10	70~240	2	500	0.8	2A	0.2A	(100)	2	500	(35)	TO-220AB	F6
2SD1351A		—	60	3	*25	60~300	5	500	1.0	3A	0.3A	(3.0)	5	500	(70)	TO-220AB	F6
—		2SB988	60	3	*30	60~200	5	500	1.0	3A	0.3A	(9)	5	500	(150)	TO-220AB	F6
KTC2230		—	160	0.1	0.8	120~400	10	10	0.5	50	5	50	10	10	7.0	TO-92L	F4
KTC2230A		—	180	0.1	0.8	120~400	10	10	0.5	50	5	50	10	10	7.0	TO-92L	F4
KTC2231		—	160	0.2	*12	100~120	10	50	1.0	200	20	50	10	50	10	TO-202	F8
KTC2231A	—	180	0.2	*12	100~120	10	50	1.0	200	20	50	10	50	10	TO-202	F8	
KTC2483	—	160	1.5	*15	100~120	5	200	1.0	500	50	40	5	200	20	TO-202	F8	

Applications	Type No		Maximum Ratings Tc = 25°C					Electrical Characteristics (Ta = 25°C)										Package		Fig
			V _{CEO} (V)	I _C (A)	P _C (W)	h _{FE}	(MIN)		V _{CE(sat)} MAX		V _{BE(sat)} (V)	MAX		SW time (TYP) MAX						
	V _{CE} (V)	I _C (A)					I _C (A)	I _B (A)	I _C (A)	I _B (A)		t _{on} (μs)	t _{off} (μs)	t _r (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 (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)	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 Cycle ≤ 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	F6
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	10	18	10	1	TO-92L	F4
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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