

1-4. High Voltage Transistors

1-4-1. SOT-23 Type Transistors

Device and Polarity		V_{CEO} (V)	I_C (A)	Condition		h_{FE}		Condition		$V_{CE}(sat), V_{BE}(sat)(v)$		Condition		$f_T(MHz)$
NPN	PNP			V_{CE} (V)	I_C (A)	MIN	MAX	I_C (mA)	I_B (mA)	MIN	MAX	V_{CE} (V)	I_C (mA)	
KST42(1D)	KST92(2D)	300	0.5	10	30	40		20	2	0.5	0.9	20	10	50
KST43(1E)	KST93(2E)	200	0.5	10	30	40		20	2	0.5	0.9	20	10	50
	KST540(2L)	150	0.5	5	10	60	240	50	5	0.5	1	10	10	100
KST5550(1F)		140	0.5	5	10	60	250	50	5	0.25	12	1	10	100

1-4-2. TO-92S Type Transistors

Device and Polarity		V_{CEO} (V)	I_C (A)	Condition h_{FE}				Condition $V_{CE}(sat), V_{BE}(sat)(v)$				Condition $f_T(MHz)$					
NPN	PNP			V_{CE} (V)	I_C (A)	MIN	MAX	I_C (mA)	I_B (mA)	TYP	MAX	TYP	MAX	V_{CE} (V)	I_C (mA)	MIN	TYP
KSC2874	KSA1174	120	0.05	6	1	200	800	10	1	0.09	0.3			6	1	50	100
		120	0.05	6	1	200	120	10	1	0.07	0.3			6	1	50	110

1-4-3 TO-92 Type Transistors

Device and Polarity		V _{CEO} (V)	I _C (A)	Condition h _{FE}				Condition V _{CE} (sat), V _{BE} (sat)(v)				Condition		f _T (MHz)		
NPN	PNP			V _{CE} (V)	I _C (A)	MIN	MAX	I _C (mA)	I _B (mA)	MAX	MAX	V _{CE} (V)	I _C (mA)	MIN	TYP	
KSP44	2N6520	400	0.3	10	10	50	200	10	1	0.5	0.75					
2N6517		350	0.5	10	30	30	200	30	3	0.5	0.9	20	10	40		
KSP45		350	0.3	10	10	50	200	10	1	0.5	0.75					
KSP42		KSP92	300	0.5	10	30	40	20	2	0.5	0.9	20	10	50		
2N6516		2N6519	300	0.5	10	30	45	270	20	3	0.5	0.9	20	10	40	
2N6515	2N6518	250	0.5	10	30	50	300	30	3	0.5	0.9	20	10	40	50	
KSP43	KSP93	200	0.5	10	30	40	20	2	0.5	0.9	20	10	50			
2N6516	KSA709	160	0.6	5	10	80	250	50	6	0.2	1	10	10	100		
		150	0.7	2	50	40	240	200	20	0.4	1	10	50			
		2N5401	150	0.6	5	10	60	240	50	5	0.5	1	10	10		100
KSC1009	2N5400	140	0.7	2	50	40	240	200	20	0.2	0.86	10	50	30	50	
2N5551		140	0.6	5	10	60	250	50	5	0.25	1.2	10	10	100		
		120	0.6	5	10	40	180	50	5	0.5	1	10	10	100		
KSC1845		KSA992	120	0.05	6	1	200	800	10	1	0.3		6	1	50	100
		KSP51	100	0.6	5	50	40	250	50	5	0.3	1.2	10	10	60	
KSA1625		400	0.5	5	0.1	30	200	100	10	1	1.2					

1-4-4. TO-92L Type Transistors

Device and Polarity		V_{CEO} (V)	I_C (A)	Condition h_{FE}				Condition $V_{CE}(sat), V_{BE}(sat)(v)$				Condition $f_T(MHz)$			
NPN	PNP			V_{CE} (V)	I_C (A)	MIN	MAX	I_C (mA)	I_B (mA)	MIN	MAX	V_{CE} (V)	I_C (mA)	MIN	TYP
KSC340	KSA1013 KSA910 KSA916	350	0.1	10	20	30	150	10	1	0.5	10	20	50	15	50 50 100 120
KSC2330		300	0.1	10	20	40	240	10	1	0.5		30	10		
KSC2383		160	1	5	200	60	320	500	50	1.5		5	200		
KSC2310		150	0.05	5	10	40	240	10	1	0.8		30	10		
KSC2316		120	0.8	5	100	80	240	500	50	1		5	100		

1-4-5. SOT-89 Type Transistors

Device and Polarity		V_{CEO} (V)	I_C (A)	Condition		h_{FE}		Condition		$V_{CE}(sat)$	$V_{BE}(sat)(V)$	Condition		$f_T(MHz)$	
NPN	PNP			V_{CE} (V)	I_C (A)	MIN	MAX	I_C (mA)	I_B (mA)	MAX	MAX	V_{CE} (V)	I_C (mA)	MIN	TYP
KSC2880	KSA1200	150	0.05	5	10	70	240	10	1	0.8		30	10	120	
KSC2881	KSA1201	120	0.8	5	100	80	240	500	50	1		5	100	120	