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DIODES IN SOD-123

	PD (mW)	VR(V)	IFM(mA) IR(μA)	IO(mA)	IR(μA)	VF(V)	Trr(ns) VR(V)		IF(mA)		MARKING
1N4148W	350	75		300	150	1	75	1.25	150	4	T4
1N4448W	350	75		500	250	2.5	75	1.25	150	4	T5
1N5711W*	250	70	10	15		0.2	50	1	15	1	SA
1N6263W*	400	60	10	15		0.2	50	1	15	1	SB
B0520LW	410	20	250		500	250	20	0.385	0.5A		SD
B0530W	410	30	130		500	130	30	0.43	0.5A		SE
B0540W	410	40	20		500	20	40	0.62	1A		SF
B5817W	450	20	1000		1000	1000	20	0.75	3A		SJ
B5818W	450	30	1000		1000	1000	30	0.875	3A		SK
B5819W	450	40	1000		1000	1000	40	0.9	3A		SL
BAT42W	200	30		200		0.5	25	0.65	50	5	S7
BAT43W	200	30		200		0.5	25	0.45	15	5	S8
BAT46W*	200	100		150	75	5	75	1	250		S9
BAV16W	400	75		300	150	1	75	1.25	150	4	T6
BAV19W	250	100		400	200	0.1	100	1.25	200	50	A8
BAV20W	250	150		400	200	0.1	150	1.25	200	50	T2
BAV21W	250	200		400	200	0.1	200	1.25	200	50	T3
SD101AW*	400	60	10	15		0.2	50	1	15	1	S1
SD101BW*	400	50	10	15		0.2	40	0.95	15	1	S2
SD101CW*	400	40	10	15		0.2	30	0.9	15	1	S3
SD103AW	400	40	100	350		5	30	0.6	200	10	S4
SD103BW	400	30	100	350		5	20	0.6	200	10	S5
SD103CW	400	20	100	350		5	10	0.6	200	10	S6

DIODES IN SOD-323

	PD (mW)	VR(V)	IFM(mA) IR(μA)	IO(mA)	IR(μA)	VF(V)	Trr(ns) VR(V)		IF(mA)		MARKING
1N4148WS	200	75		300	150	1	75	1.25	150	4	T4
1N4448WS	200	75		500	250	2.5	75	1.25	150	4	T5
1N5711WS*	200	70	10	15		0.2	50	1	15	1	SA
1SS355	200	80		225	100	0.1	80	1.2	100	4	4D
BAS40WS	350	40	10	200		0.2	30	1	40	5	43
BAS70WS	200	70	10	70		0.1	50	1	15	5	K73
BAT42WS	200	30		200		0.5	25	0.65	50	5	S7
BAT43WS	200	30		200		0.5	25	0.45	15	5	S8
BAT54WS	200	30	100	200	100	2	25	1	100	5	L9
BAT60B	200	10	500	3000		25	8	0.6	1000		W5
BAV16WS	200	75		300	150	1	75	1.25	150	4	T4
BAV19WS	200	100		400	200	0.1	100	1.25	200	50	A8
BAV20WS	200	150		400	200	0.1	150	1.25	200	50	T2
BAV21WS	200	200		400	200	0.1	200	1.25	200	50	T3
SD101AWS*	200	60	10	15		0.2	50	1	15	1	S1
SD101BWS*	200	50	10	15		0.2	40	0.95	15	1	S2
SD101CWS*	200	40	10	15		0.2	30	0.9	15	1	S3
SD103AWS	200	40	100	350		5	30	0.6	200	10	S4
SD103BWS	200	30	100	350		5	20	0.6	200	10	S5
SD103CWS	200	20	100	350		5	10	0.6	200	10	S6
SD107WS	250	30	100	100		1	25	0.8	100		SG

DIODES IN SOD-523

	PD (mW)	VR(V)	IO(mA)	IR(μA)	VF(V)	Trr(ns)		IF(mA)		MARKING
1SS400	150	90	100	100	0.1	80	1.2	100	4	A
RB751S-40	150	40	100	30	0.5	30	0.37	1		5

DIODES IN SOT23

	PD (mW)	VR(V)	IFM(mA) IR(μA)	IO(mA)	IR(μA)	VF(V)	Trr(ns) VR(V)		IF(mA)		MARKING
1SS181	150	80	100	100	0.5	80	1.2	100	4	A3	
1SS184	150	80	100	100	0.5	80	1.2	100	4	B3	
1SS187	150	80	100	100	0.5	80	1.2	100	4	D3	
1SS190	150	80	100	100	0.5	80	1.2	100	4	E3	
1SS193	150	80	100	100	0.5	80	1.2	100	4	F3	
1SS196	150	80	100	100	0.5	80	1.2	100	4	G3	

1SS226	150	80	100	100	0.5	80	1.2	100	4	C3
BAL99LT1	225	70	100	100	2.5	70	1.25	150	6	JF
BAS116LT1	225	75	100	200	0.005	75	1.25	150	3000	JV
BAS16LT1	225	75	100	200	1	75	1.25	150	6	A6
BAS19LT1	225	120	100	200	0.1	100	1.25	200	50	JP
BAS21ALT1	225	250	100	200	1	200	1.25	200	50	JS2
BAS21CLT1	225	250	100	200	1	200	1.25	200	50	JS3
BAS21LT1	225	250	100	200	1	200	1.25	200	50	JS
BAS21SLT1	225	250	100	200	1	200	1.25	200	50	JS4
BAS40	200	40	100	200	0.2	30	1	40	5	43
BAS40-04	200	40	100	200	0.2	30	1	40	5	44
BAS40-05	200	40	100	200	0.2	30	1	40	5	45
BAS40-06	200	40	100	200	0.2	30	1	40	5	46
BAS70	200	70	10	70	0.1	50	1	15	5	73
BAS70-04	200	70	10	70	0.1	50	1	15	5	74
BAS70-05	200	70	10	70	0.1	50	1	15	5	75
BAS70-06	200	70	10	70	0.1	50	1	15	5	76
BAT54	200	30	100	200	2	25	1	100	5	KL1
BAT54A	200	30	100	200	2	25	1	100	5	KL2
BAT54C	200	30	100	200	2	25	1	100	5	KL3
BAT54S	200	30	100	200	2	25	1	100	5	KL4
BAV199LT1	225	70	100	215	5nA	70	1.25	150	3000	JY
BAV70LT1	225	70	100	200	2.5	70	1.25	150	6	A4
BAV74LT1	225	50	5	200	0.1	50	1	100	4	JA
BAV99LT1	225	70	100	215	2.5	70	1.25	150	6	A7
BAW56LT1	225	70	100	200	2.5	70	1.25	150	6	A1
CMPSH-3	350	30	100	100	0.5	25	1	100	5	D95
CMPSH-3A	350	30	100	100	0.5	25	1	100	5	DB1
CMPSH-3C	350	30	100	100	0.5	25	1	100	5	DB2
CMPSH-3S	350	30	100	100	0.5	25	1	100	5	DA5
MC2836	150	50	100	300	0.1	50	1.2	100	4	A41
MC2838	150	50	100	300	0.1	50	1.2	100	3	A61
	PD	VR(V)	IFM(mA)	IR(μA)	VF(V)	Trr(ns)				
	(mW)		IR(μA)			VR(V)		IF(mA)		MARKING
MMBD1501A	350	200	5	600	0.01	180	1.5	300		A11
MMBD1503A	350	200	5	600	0.01	180	1.5	300		A13
MMBD1504A	350	200	5	600	0.01	180	1.5	300		A14
MMBD1505A	350	200	5	600	0.01	180	1.5	300		A15
MMBD4148	350	75	100	300	2.5	75	1.25	150	4	KA2
MMBD4148A	350	100	100	200	5	75	1	10	4	5H
MMBD4148C	350	100	100	200	5	75	1	10	4	D6
MMBD4148C	350	100	100	200	5	75	1	10	4	KD5
MMBD4148S	350	100	100	200	5	75	1	10	4	D4
MMBD7000	225	100	100	200	3	100	1.1	100	4	M5C
MMBD914LT1	225	75	100	200	2.5	75	1.25	150	4	5D

DIODES IN SOT-23-3L

	PD	VR(V)	IFM(mA)	IR(μA)	VF(V)	Trr(ns)				
	(mW)		IR(μA)			VR(V)		IF(mA)		MARKING
1N5817	300	20	1000	1000	1000	20	0.75	3000		SJ
1N5819	300	40	1000	1000	1000	40	0.9	3000		SL
CMSD2004S	250	300	100	225	0.1	240	1	100	50	B6D

DIODES IN SOT-323

	PD	VR(V)	IFM(mA)	IR(μA)	VF(V)	Trr(ns)				
	(mW)		IR(μA)			VR(V)		IF(mA)		MARKING
BAS19W	200	100	100	200	0.1	100	1.25	200	50	KA8
BAS20W	200	150	100	200	0.1	150	1.25	200	50	KT2
BAS21W	200	200	100	200	0.1	200	1.25	200	50	KT3
BAS40W*	200	40	10	200	0.2	30	1	40	5	43
BAS40W-04	200	40	10	200	0.2	30	1	40	5	44
BAS40W-05	200	40	10	200	0.2	30	1	40	5	45
BAS40W-06	200	40	10	200	0.2	30	1	40	5	46
BAS70W	200	70	10	70	0.1	50	1	15	5	K73
BAS70W-04	200	70	10	70	0.1	50	1	15	5	K74

DIODES IN SOT-323

	PD	VR(V)	IFM(mA)	IR(μA)	VF(V)	Trr(ns)				
	(mW)		IR(μA)			VR(V)		IF(mA)		MARKING
BAS19W	200	100	100	200	0.1	100	1.25	200	50	KA8
BAS20W	200	150	100	200	0.1	150	1.25	200	50	KT2
BAS21W	200	200	100	200	0.1	200	1.25	200	50	KT3
BAS40W*	200	40	10	200	0.2	30	1	40	5	43
BAS40W-04	200	40	10	200	0.2	30	1	40	5	44
BAS40W-05	200	40	10	200	0.2	30	1	40	5	45
BAS40W-06	200	40	10	200	0.2	30	1	40	5	46
BAS70W	200	70	10	70	0.1	50	1	15	5	K73
BAS70W-04	200	70	10	70	0.1	50	1	15	5	K74
BAS70W-05	200	70	10	70	0.1	50	1	15	5	K75
BAS70W-06	200	70	10	70	0.1	50	1	15	5	K76
BAT54AW*	200	30	100	200	2	25	1	100	5	KL6
BAT54CW	200	30	100	200	2	25	1	100	5	KL7
BAT54SW*	200	30	100	200	2	25	1	100	5	KL8
BAT54W*	200	30	100	200	2	25	1	100	5	KL5
BAV70W	200	75	100	150	2.5	75	1.25	150	4	KJA
BAV99W	200	75	100	150	2.5	75	1.25	150	4	KJG
BAW56W	200	75	100	150	2.5	75	1.25	150	4	KJC

CMSD2004S	250	240	100	225	0.1	240	1	100	50	B6D
DA204U	200	20	100	100	0.1	15	1	10		K
DAN202U	200	80	100	100	0.1	70	1.2	100	4	N
DAP202U	200	80	100	100	0.1	70	1.2	100	4	P
MMBD4148V	200	75	100	150	1	75	1.25	150	4	A2,KA2
MMBD4448V	200	75	10	250	2.5	75	1.25	150	4	KA3
RB706F-40	200	40	100	30	1	10	0.37	1		3J
RB715F	200	40	100	30	1	10	0.37	1		3D
RB717F	200	40	100	30	1	10	0.37	1		3E

SCHOTTKY BARRIER RECTIFIER IN TO-220

	PD		VR(V)	IFM(A)	IO(A)	IR(mA)	VF(V)	CJ(PF)		IF(A)	
	(W)	POLARITY		IR(mA)				VR(V)			
MBR1030CT	2	ACA	30		125	10	0.1	30	0.7	5	150
MBR1035CT	2	ACA	35		125	10	0.1	35	0.7	5	150
MBR1040CT	2	ACA	40		125	10	0.1	40	0.7	5	150
MBR1045CT	2	ACA	45		125	10	0.1	45	0.7	5	150
MBR1050CT	2	ACA	50		125	10	0.1	50	0.8	5	150
MBR1060CT	2	ACA	60		125	10	0.1	60	0.8	5	150
MBR1530CT	2	ACA	30		150	15	0.1	30	0.7	7.5	300
MBR1535CT	2	ACA	35		150	15	0.1	35	0.7	7.5	300
MBR1540CT	2	ACA	40		150	15	0.1	40	0.7	7.5	300
MBR1545CT	2	ACA	45		150	15	0.1	45	0.7	7.5	300
MBR1550CT	2	ACA	50		150	15	1	50	0.75	7.5	300
MBR1560CT	2	ACA	60		150	15	1	60	0.75	7.5	300
MBR2030CT	2	ACA	30		150	20	0.1	30	0.7	10	650
MBR2035CT	2	ACA	35		150	20	0.1	35	0.7	10	650
MBR2040CT	2	ACA	40		150	20	0.1	40	0.7	10	650
MBR2045CT	2	ACA	45		150	20	0.1	45	0.7	10	650
MBR2050CT	2	ACA	50		150	20	0.1	50	0.8	10	650
MBR2060CT	2	ACA	60		150	20	0.1	60	0.8	10	650
MBR2070CT	2	ACA	70		150	20	0.15	70	0.85	10	1000
MBR2080CT	2	ACA	80		150	20	0.15	80	0.85	10	1000
MBR2090CT	2	ACA	90		150	20	0.15	90	0.85	10	1000
MBR20100C	2	ACA	100		150	20	0.15	100	0.85	10	1000
MBR20150C	2	ACA	150		150	20	0.1	150	0.9	10	
MBR20200C	2	ACA	200		150	20	1	200	0.9	10	
SBL2030CT	2	ACA	30	0.5	150	20	0.45	30	0.55	10	
SBL2035CT	2	ACA	35	0.5	150	20	0.45	35	0.55	10	
SBL2040CT	2	ACA	40	0.5	150	20	0.45	40	0.55	10	
SBL2050CT	2	ACA	50	0.5	150	20	0.45	50	0.7	10	
SBL2060CT	2	ACA	60	0.5	150	20	0.45	60	0.7	10	

TRANSISTOR IN SOT-23

	PD	IC	BVCBO	BVCEO	BVEBO	hFE	VCE(sat)	IT									
	POLARITY	(mW)	(mA)	(V)	(V)	(V)	MIN	MAX	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)	MARKING		
2SA1037	PNP	200	150	60	50	6	120	560	6	1	0.5	50	5	120	FQ,FR,FS		
2SA1179	PNP	200	150	55	50	5	200	400	6	1	0.5	50	5	180+	M		
2SA1235A	PNP	200	200	60	50	6	150	600	6	1	0.3	100	10	180	ME, MF		
2SA812	PNP	200	100	60	50	5	90	600	6	1	0.3	100	10	180	M4,M5,M6,M7		
2SB709A	PNP	200	200	45	45	7	160	460	10	2	0.5	100	10	60	BQ,BR,BS		
2SC1623	NPN	200	100	60	50	5	90	600	6	1	0.3	100	10	250	L4,L5,L6,L7		
2SC2712	NPN	150	150	60	50	5	70	700	6	2	0.25	100	10	80	LO,LY,LG,LL		
2SC3052	NPN	150	200	50	50	6	150	800	6	1	0.3	100	10	180	LE,LF,LG		
2SC5344	NPN	200	800	35	30	5	100	320	1	100	0.5	500	50	80	FAO,FAY		
A1015LT1	PNP	200	150	50	50	5	130	400	6	2	0.3	100	10	80	BA		
A733LT1	PNP	200	150	60	50	5	120	475	6	1	0.3	100	10	50	CS		
BC807	PNP	300	500	50	45	5	100	600	1	100	0.7	500	50	100	5A1,5B,5C		
BC808	PNP	200	500	30	25	5	100	630	1	100	0.7	500	50	100	6A,6B,6C		
BC817	NPN	200	500	30	25	5	100	630	1	100	0.7	500	50	100	6E,6F,6G		
BC846A,B,L	NPN	225	100	80	65	6	110	450	5	2	0.5	100	5	100	1A,1B		
BC847A,B,C	NPN	225	100	50	45	6	110	800	5	2	0.5	100	5	100	1E,1F,1G		
BC848A,B,C	NPN	225	100	30	30	6	110	800	5	2	0.5	100	5	100	1J,1K,1L		
BC849*	NPN	310	100	30	30	5	110	800	5	2	0.6	100	5	200	8DA,8DB,8DC		
BC850*	NPN	310	100	50	45	5	110	800	5	2	0.6	100	5	200	8EA,8EB,8EC		
BC856A,B,L	PNP	225	100	80	65	5	125	475	5	2	0.5	100	5	100	3A,3B		
BC857A,B,C	PNP	225	100	50	45	5	125	800	5	2	0.5	100	5	100	3E,3F,3G		
BC858A,B,C	PNP	225	100	30	30	5	125	800	5	2	0.5	100	5	100	3J,3K,3L		
BCW30LT1	PNP	225	100	32	32	5	215	500	5	2	0.3	10	0.5		C2X		
BCW60C	NPN	250	100	32	32	5	250	460	5	2	0.55	50	1.25	100	AC		
BCW61B	PNP	250	200	32	32	5	180	310	5	2	0.55	50	1.25	100	BB		
BCW61C	PNP	250	100	32	32	5	250	460	5	2	1.05	50	1.25	100	BC		
BCW66H	NPN	330	800	75	45	5	250	630	1	100	0.7	500	50	100	EH		
BCW68	PNP	330	800	60	45	5	160	630	2	100	1	500	50	100	DG,DH		
BCX19LT1	NPN	225	500	50	45	5	100	600	1	100	0.62	500	50		U1		
BCX70J	NPN	250	200	45	45	5	250	460	5	2	0.55	50	1.25	100	AJ		
BCX70K	NPN	250	200	45	45	5	380	630	5	2	0.55	50	1.25	100	AK		
BFS20	NPN	250	25	30	20	4	40	120	10	7	0.3	10	1	275	G11		
C1815LT1	NPN	200	150	60	50	5	130	400	6	2	0.25	100	10	80	HF		
C945LT1	NPN	200	150	60	50	5	130	400	6	1	0.3	100	10	150	CR		
FMMT4124	NPN	330	200	30	25	5	120	360	1	2	0.3	50	5	300	ZC		
FMMT458	NPN	500	1000	400	400	5	100	300	10	50	0.5	50	6	50	458		
KSA1182	PNP	150	500	35	30	5	70	240	1	100	0.25	100	10	150	F10,F1Y		
KTA1298	PNP	200	800	35	30	5	100	320	1	100	0.4	500	20	80	IO,IY		
KTA1504	PNP	150	150	50	50	5	70	400	6	2	0.3	100	10	80	ASO,ASY,ASG		

		PD	IC	BVCBO	BVCEO	BVEBO	hFE	VCE(sat)	fT							
	POLARITY	(mW)	(mA)	(V)	(V)	(V)	MIN	MAX	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)	MARKING	
KTA1505	PNP	150	500	35	30	5	70	400	1	100	0.25	100	10	150	AZO,AZY,AZG	
KTC3265	NPN	200	800	35	30	5	100	320	1	100	0.5	500	20	120	EO,EY	
KTC3875	NPN	150	150	60	50	5	70	700	6	2	0.25	100	10	80	ALO,ALY,ALG,ALL	
KTC3880S	NPN	150	20	40	30	4	40	200	6	1				500	AQR,AQO,AQY	
KTC4075	NPN	100	150	60	50	5	70	700	6	2	0.25	100	10	80	LO1,LY1,LG1,LL1	
M28S	NPN	200	1000	40	20	6	300	1000	1	100	0.55	600	20	100	28S	
M8050	NPN	200	1000	40	25	6	80	300	1	100	0.5	800	80	150	Y11	
M8550	PNP	200	1000	40	25	6	85	300	1	100	0.5	800	80	150	Y21	
MMBT2222A	NPN	300	600	75	40	6	100	300	10	150	0.6	500	50	300	1P	
MMBT2222L	NPN	300	600	60	30	5	100	300	10	150	1	500	50	250	M1B	
MMBT2907A	PNP	300	600	60	60	5	100	300	10	150	0.6	500	50	200	2F	
MMBT2907L	PNP	300	600	60	40	5	100	300	10	150	1	500	50	200	M2B	
MMBT3904L	NPN	200	200	60	40	6	100	300	10	1	0.3	50	5	250	1AM	
MMBT3906L	PNP	200	200	40	40	5	100	300	10	1	0.3	50	5	250	2A	
MMBT4401L	NPN	300	600	60	40	6	100	300	1	150	0.4	150	15	250	2X	
MMBT4403L	PNP	300	600	40	40	5	100	300	2	150	0.4	150	15	200	2T	
MMBT5401L	NPN	300	600	160	150	5	100	200	5	10	0.5	50	5	100	2L	
MMBT5550L	NPN	225	600	160	140	6	60	250	5	10	0.25	50	5	100	M1F	
MMBT5551L	NPN	300	600	180	160	6	80	250	5	10	0.5	50	5	80	G1	
MMBT06L	NPN	300	500	80	80	4	100	200	1	100	0.25	100	10	100	1GM	
MMBT013	NPN	300	300	30	30	10	10000		5	100	1.5	100	0.1	125	K2D	
MMBT014	NPN	300	300	30	30	10	20000		5	100	1.5	100	0.1	125	K3D	
MMBT042L	NPN	300	300	300	300	5	100	200	10	10	0.2	20	2	50	1D	
MMBT043	NPN	225	500	200	200	6	40		10	30	0.5	20	2		M1E	
MMBT055L	PNP	225	500	60	60	4	100		1	10	0.25	100	10	50	2H	
MMBT056L	PNP	225	500	80	80	4	100		1	10	0.25	100	10	50	2GM	
MMBT092L	PNP	300	300	300	300	5	100	200	10	10	0.2	20	2	50	2D	
MMBT10L	NPN	225	50	30	25	3	60		10	4	0.5	4	0.4	650	3EM	
S8050LT1	NPN	300	500	40	25	5	120	350	1	50	0.6	500	50	150	J3Y	
S8550LT1	PNP	300	500	40	25	5	120	350	1	50	0.6	500	50	150	2TY	
S9011LT1	NPN	200	30	30	20	4	70	200	5	1	0.3	10	1	150	1T	
S9012LT1	PNP	300	500	40	25	5	120	350	1	50	0.6	500	50	150	2T1	
S9013LT1	NPN	300	500	40	25	5	120	350	1	50	0.6	500	50	150	J3	
S9014LT1	NPN	200	100	50	45	5	200	1000	5	1	0.3	100	5	150	J6	
S9015LT1	PNP	200	100	50	45	5	200	1000	5	1	0.3	100	10	150	M6	
S9016LT1	NPN	200	25	30	20	5	70	200	5	1	0.3	10	1	300	Y6	
S9018LT1	NPN	200	50	25	18	4	70	190	5	1	0.5	10	1	600	J8	
SS8050LT1	NPN	300	1500	40	25	5	120	350	1	100	0.5	800	80	100	Y1	
SS8550LT1	PNP	300	1500	40	25	5	120	350	1	100	0.5	800	80	100	Y2	

TRANSISTOR IN SOT-223

		PD	IC	BVCBO	BVCEO	BVEBO	hFE	VCE(sat)	fT							
	POLARITY	PIN ARRAY	(mW)	(mA)	(V)	(V)	(V)	MIN	MAX	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)	
BCEP54	NPN	BCE	1330	1000	45	45	5	63	250	2	150	0.5	500	50	130	
TIP31	NPN	BCE	1300	3000	40	40	5	10	50	4	3000	1.2	3000	375	3	
TIP31A	NPN	BCE	1300	3000	60	60	5	10	50	4	3000	1.2	3000	375	3	
TIP31B	NPN	BCE	1300	3000	80	80	5	10	50	4	3000	1.2	3000	375	3	
TIP31C	NPN	BCE	1300	3000	100	100	5	10	50	4	3000	1.2	3000	375	3	

TRANSISTOR SOT-23-3L

		PD	IC	BVCBO	BVCEO	BVEBO	hFE	VCE(sat)	fT							
	POLARITY	(mW)	(mA)	(V)	(V)	(V)	MIN	MAX	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)	MARKING	
2SA1036K	PNP	200	500	40	32	5	82	390	3	10	0.4	100	10	200+	HP,HQ,HR	
2SA1037	PNP	200	150	60	50	6	120	560	6	1	0.5	50	5	120	FQ,FR,FS	
2SA1162	PNP	150	150	50	50	5	70	400	6	2	0.3	100	10	80	SO,SY,SG	
2SA1235A	PNP	200	200	60	50	6	150	500	6	1	0.3	100	10	180	MoE,MoF	
2SA1313	PNP	200	500	50	50	5	70	240	1	100	0.25	100	10	200+	ACO,ACY	
2SA1464	PNP	200	500	60	40	5	75	300	2	150	0.75	500	50	150	Y12,Y13,Y14	
2SA812	PNP	200	100	60	50	5	90	600	6	1	0.3	100	10	180	M4,M5,M6,M7	
2SB1197K	PNP	200	800	40	32	5	82	390	3	100	0.5	500	50	50	AHP,AHQ,AHR	
2SB624	PNP	200	700	30	25	5	110	400	1	100	0.6	700	70	140	BV1,BV2,BV3,BV4,BV5	
2SC1623	NPN	200	100	60	50	5	90	600	6	1	0.3	100	10	250+	L4,L5,L6,L7	
2SC2223	NPN	150	20	30	20	4	40	180	6	1	0.3	10	1	400	F12,F13,F14	
2SC2411K	NPN	200	500	40	32	5	82	390	3	100	0.4	500	50	250+	CP,CQ,CR	
2SC2412K	NPN	200	150	60	50	7	120	560	6	1	0.4	50	5	150	BQ,BR,BS	
2SC2734*	NPN	150	50	20	11	3	20	200	10	5	0.7	10	5	1400	GC	
2SC2735*	NPN	150	50	30	20	3	40		10	10	1	20	4	600	JC	
2SC3052	NPN	150	200	50	50	6	150	800	6	1	0.3	100	10	180	LE,LF,LG	
2SC3356*	NPN	200	100	20	12	3	50	300	10	20				6000	R23,R24,R25	
2SC3739	NPN	200	500	60	40	5	75	300	1	150	0.75	500	50	200	B12,B13,B14	
2SC3838K*	NPN	150	50	20	11	3	27	270	10	5	0.5	10	5	1400	AD	
2SD1781K	NPN	200	800	40	32	5	120	390	3	100	0.4	500	50	150+	AFQ,AFR	
2SD596	NPN	200	700	30	25	5	110	400	1	100	0.6	700	70	140	DV1,DV2,DV3,DV4,DV5	
MMBT444	NPN	350	300	500	400	6	50	240	10	10	0.75	50	5	50	3D	

TRANSISTOR IN SOT-323

		PD	IC	BVCBO	BVCEO	BVEBO	hFE	VCE(sat)	fT							
	POLARITY	(mW)	(mA)	(V)	(V)	(V)	MIN	MAX	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)	MARKING	
2SA1576A	PNP	200	150	60	50	6	120	560	6	1	0.5	50	5	100+	FQ,FR,FS	
2SA1577	PNP	200	500	40	32	5	82	390	3	10	0.4	100	10	200+	HP,HQ,HR	
2SB1218A	PNP	150	100	45	45	7	160	460	10	2	0.5	100	10	80+	BQ1,BR1,BS1	

2SC4081	NPN	200	150	60	50	7	120	560	6	1	0.4	50	5	180+	BQ,BR,BS
2SC4097	NPN	200	500	40	32	5	82	390	3	10	0.4	100	10	250+	CP,CQ,CR
2SC4177	NPN	150	100	60	50	5	90	600	6	1	0.3	100	10	250	L4,L5,L6,L7
KTC4076	NPN	100	500	35	30	5	70	240	1	100	0.25	100	10	300+	WO,WY
MMST2222A	NPN	200	600	75	40	6	100	300	10	150	0.6	500	50	300	K3P
MMST2907A	PNP	200	600	60	60	5	100	300	10	150	0.6	500	50	200	K3F
MMST3904	NPN	200	200	60	40	5	100	300	1	10	0.3	50	5	250	K2N
MMST3906	PNP	200	200	40	40	5	100	300	1	10	0.3	50	5	300	K5N
MMST4401	NPN	200	600	60	40	6	100	300	1	150	0.75	500	50	250	K3X
MMST4403	PNP	200	600	40	40	5	100	300	2	150	0.4	150	15	200	K3T
MMST5401	PNP	200	600	160	150	5	60	240	5	10	0.5	50	5	100	K4M
MMST5551	NPN	200	600	180	160	6	80	250	5	10	0.5	50	5	100	K4N
MMSTA42	NPN	200	300	310	305	5	100	200	10	10	0.2	20	2	50	K3M
MMSTA92	PNP	200	300	310	305	5	100	200	10	10	0.2	20	2	50	K3R
SS8050LT1	NPN	200	1500	40	25	5	120	350	1	100	0.5	800	80	100	Y1
SS8550LT1	PNP	200	1500	40	25	5	120	350	1	100	0.5	800	80	100	Y2

TRANSISTOR SOT-363

	POLARITY	PD (mW)	IC (mA)	BVCEO (V)	BVCEO (V)	VBEBO (V)	hFE	VCE(sat)		fT	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)	MARKING
								MIN	MAX								
BC847BS	NPN	300	100	50	45	5	200	450	5	2	0.1	10	0.5	100	1Ft		
BC847PN	NPN	200	100	50	45	6	200	450	5	2	0.6	100	5	100	7P		
	PNP	200	100	50	45	5	220	475	5	2	0.65	100	5	100			
BC847S	NPN	300	100	50	45	6	110	630	5	2	0.25	10	0.5	200+	1C		
BC857S	PNP	300	100	50	45	5	125	630	5	2	0.3	10	0.5	200+	3CS		
MMDT2227	NPN	200	600	75	40	6	100	300	10	150	1	500	50	300	K27		
	PNP	200	600	60	60	5	100	300	10	150	1.6	500	50	200			
MMDT5401	NPN	200	200	160	150	5	60	240	5	10	0.5	50	5	100	K4M		
MMDT5451	NPN	200	200	180	160	6	80	250	5	10	0.2	50	5	100	KNM		
	PNP	200	200	160	150	5	60	240	5	10	0.5	50	5	100			
MMDT5551	NPN	200	200	180	160	6	80	250	5	10	0.15	10	1	100	K4N		
UMZ1N	NPN	150	150	60	50	7	120	560	6	1	0.4	50	5	140+	Z1		
	PNP	150	150	60	50	7	120	560	6	1	0.5	50	5	140+			

TRANSISTOR IN SOT-89

	POLARITY	PIN ARRAY	PD (mW)	IC (mA)	BVCEO (V)	BVCEO (V)	VBEBO (V)	hFE	VCE(sat)		fT	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)	MARK
									MIN	MAX								
2SA1201	PNP	BCE	500	800	120	120	5	80	240	5	100	1	500	50	120+	DO,DY		
2SA1203	PNP	BCE	500	1500	30	30	5	100	320	2	500	2	1500	30	120+	HO1,HY1		
2SA1213	PNP	BCE	500	2000	50	50	5	70	240	2	500	0.5	1000	50	100	NO,NY		
2SA1740	PNP	BCE	500	200	400	400	5	60	200	10	50	0.8	50	5	70+	AK		
2SB1119	PNP	BCE	500	1000	25	25	5	100	560	2	50	0.7	500	50	180+	BB		
2SB1132	PNP	BCE	500	1000	40	32	5	82	390	3	100	0.5	500	50	150+	BAP,BAQ,BAR		
2SB1188	PNP	BCE	500	2000	40	32	5	82	390	3	500	0.8	2000	200	80	BCP,BCQ,BCR		
2SB1260	PNP	BCE	500	1000	80	80	5	82	390	3	100	0.4	500	50	80	ZL		
2SB1308	PNP	BCE	500	3000	30	20	6	82	390	2	500	0.45	1500	150	50	BFP,BFQ,BFR		
2SB766	PNP	BCE	500	1000	30	25	5	85	340	10	500	0.4	500	50	200+	AQ,AR,AS		
2SB766A	PNP	BCE	500	1000	60	50	5	85	340	10	500	0.4	500	50	200+	BQ,BR,BS		
2SC2881	NPN	BCE	500	800	120	120	5	80	240	5	100	1	500	50	120+	CO1,CY1		
2SC2884	NPN	BCE	500	800	35	30	5	100	320	1	100	0.5	500	20	120+	PO1,PY1		
2SC4548	NPN	BCE	500	200	400	400	5	60	200	10	50	0.6	50	5	70+	CN		
2SD2150	NPN	BCE	500	3000	40	20	6	180	560	2	100	0.5	2000	100	290+	CFQ,CFR,CFS		
2SD874	NPN	BCE	500	1000	30	25	5	85	340	10	500	0.4	500	50	200+	ZQ,ZR,ZS		
2SD874A	NPN	BCE	500	1000	60	50	5	85	340	10	500	0.4	500	50	200+	YQ,YR,YS		
A42	NPN	BCE	500	500	310	305	5	80	250	10	10	0.2	20	2	50	A42		
A92	PNP	BCE	500	500	310	305	5	80	250	10	10	0.2	20	2	50	A92		
B772	PNP	BCE	500	3000	40	30	6	60	400	2	1000	0.5	2000	200	50	772		
BC869	PNP	BCE	500	1000	32	20	5	100	375	1	500	0.5	1000	100	40	CEC,CGC,CHC		
BCX51	PNP	BCE	500	1000	45	45	5	63	250	2	150	0.5	500	50	50	AA,AC,AD		
BCX52	PNP	BCE	500	1000	60	60	5	63	250	2	150	0.5	500	50	50	AE,AG,AM		
BCX53	PNP	BCE	500	1000	100	80	5	63	250	2	150	0.5	500	50	50	AH1,AK1,AL1		
BCX54	NPN	BCE	500	1000	45	45	5	63	250	2	150	0.5	500	50	130	BA,BC,BD		
BCX55	NPN	BCE	500	1000	60	60	5	63	250	2	150	0.5	500	50	130	BE,BG,BM		
BCX56	NPN	BCE	500	1000	100	80	5	63	250	2	150	0.5	500	50	130	BH,BK,BL		
D882	NPN	BCE	500	3000	40	30	6	60	400	2	1000	0.5	2000	200	50	882		
FCX591	PNP	BCE	1000	1000	80	60	5	100	300	5	500	0.6	1000	100	150	P1		
KTA1663	PNP	BCE	500	1500	35	30	5	100	320	2	500	2	1500	30	80	HO,HY		
KTA1664	PNP	BCE	500	800	35	30	5	100	320	1	100	0.7	500	20	120+	RO,RY		
KTA1666	PNP	BCE	500	2000	50	50	5	70	240	2	500	0.5	1000	50	120+	WO,WY		
KTC4373	NPN	BCE	500	800	120	120	5	80	240	5	100	1	500	50	120+	CO,CY		
KTC4374	NPN	BCE	500	400	80	80	5	70	240	2	50	0.4	200	20	100+	EO,EY		
KTC4376	NPN	BCE	500	800	35	30	5	100	320	1	100	0.5	500	20	120+	PO,PY		
KTC4379	NPN	BCE	500	2000	50	50	5	70	240	2	500	0.5	1000	50	120+	UO,UY		
KTD1898	NPN	BCE	500	1000	100	80	5	70	400	3	500	0.4	500	20	100+	ZO,ZY,ZG		

TRANSISTOR IN TO-92S

	POLARITY	PIN ARRAY	PD (mW)	IC (mA)	BVCEO (V)	BVCEO (V)	VBEBO (V)	hFE	VCE(sat)		fT	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)
									MIN	MAX							
2SA1585S	PNP	ECB	400	2000	20	20	6	120	390	2	100	0.5	2000	100	200		
2SA608S	PNP	ECB	300	100	40	30	5	60	560	6	1	0.5	50	5	180+		
2SA821S	PNP	ECB	250	30	210	210	5	56	270	3	5	0.6	2	0.2	30		
2SA933AS	PNP	ECB	300	150	60	50	6	120	560	6	1	0.5	50	5	120		
2SC1740S	NPN	ECB	300	150	60	50	7	120	560	6	1	0.4	50	5	100		
2SC4115S	NPN	ECB	300	3000	40	20	6	120	560	2	100	0.5	2000	100	200		
2SC536S	NPN	ECB	300	100	40	30	5	60	960	6	1	0.5	50	5	100+		
KTC3199	NPN	ECB	400	150	50	50	5	70	700	6	2	0.25	100	10	80		

TRANSISTOR IN TO-92

	POLARITY	PIN ARRAY	PD (mW)	IC (mA)	BVCBO (V)	BVCEO (V)	BVEBO (V)	hFE		VCE(sat)		fT	VCE(V)	IC(mA)	IB(mA)	(MHz)
								MIN	MAX	MIN	MAX					
2152	NPN	ECB	700	3000	22	22	6	180	950	2	100	0.4	2000	100		
2N3904	NPN	EBC	625	200	60	40	6	100	400	1	10	0.3	50	5	300	
2N3906	PNP	EBC	625	200	40	40	5	100	400	1	10	0.3	50	5	250	
2N4126	PNP	EBC	625	200	25	25	4	120	360	1	2	0.4	50	5	250	
2N4400	NPN	EBC	625	600	60	40	6	50	150	2	150	0.75	500	50		
2N4401	NPN	EBC	625	600	60	40	6	100	300	1	150	0.4	150	15	250	
2N4402	NPN	EBC	625	600	40	40	5	50	150	2	150	0.75	500	50		
2N4403	PNP	EBC	625	600	40	40	5	100	300	1	150	0.4	150	15	200	
2N5087	PNP	EBC	625	50	50	50	3	250	800	5	0.1	0.3	10	1	40	
2N5172	NPN	ECB	625	500	25	25	5	100	500	10	10	0.25	10	1		
2N5400	PNP	EBC	625	600	130	120	5	40	180	5	10	0.5	50	5	100	
2N5401	PNP	EBC	625	600	160	150	5	80	250	5	10	0.5	50	5	100	
2N5550	NPN	EBC	625	600	160	140	6	60	250	5	10	0.25	50	5	100	
2N5551	NPN	EBC	625	600	180	160	6	80	250	5	10	0.2	50	5	80	
2N6517	NPN	EBC	625	500	350	350	6	30	200	10	30	1	50	5	40	
2N6520	PNP	EBC	625	500	350	350	5	30	200	10	30	1	50	5	40	
2N6727	PNP	EBC	1000	1500	50	40	5	50	250	1	1000	0.5	1000	100	50	
2SA1296	PNP	ECB	750	2000	20	20	6	120	400	2	100	0.5	2000	100	100	
2SA1300	PNP	ECB	750	2000	20	10	6	140	600	1	500	0.82	2000	100	100	
2SA1318	PNP	ECB	500	200	60	50	6	100	560	6	1	0.3	100	10	200+	
2SA1625	PNP	ECB	750	500	400	400	7	40	200	5	50	1	100	10	10+	

Transistors in TO-92

	POLARITY	PIN ARRAY	PD (mW)	IC (mA)	BVCBO (V)	BVCEO (V)	BVEBO (V)	hFE		VCE(sat)		fT	VCE(V)	IC(mA)	IB(mA)	(MHz)
								MIN	MAX	MIN	MAX					
2SA562	PNP	ECB	500	500	35	30	5	70	240	1	100	0.25	100	10	200	
2SA608	PNP	ECB	400	100	40	30	5	60	560	6	1	0.5	50	5	180+	
2SA608N	PNP	ECB	500	150	60	50	6	160	560	6	1	0.3	100	10	150	
2SA673	PNP	ECB	400	500	35	35	4	60	320	3	10	0.6	150	15		
2SA673A	PNP	ECB	400	500	50	50	4	60	320	3	10	0.6	150	15		
2SA720	PNP	ECB	625	500	60	50	5	85	340	10	150	0.6	300	30	200+	
2SA821	PNP	ECB	250	30	210	210	5	56	270	3	5	0.6	2	0.2	30	
2SA836	PNP	ECB	200	100	55	55	5	160	500	12	2	0.5	10	1	150	
2SA844	PNP	ECB	300	100	55	55	5	160	800	12	2	0.5	10	1	150	
2SA950	PNP	ECB	600	800	35	30	5	100	320	1	100	0.7	500	20	120+	
2SB562	PNP	ECB	900	1000	25	20	5	85	240	2	500	0.5	800	80	350+	
2SC1008	NPN	EBC	800	700	80	60	8	40	400	2	50	0.4	500	50	30	
2SC1213	NPN	ECB	400	500	35	35	4	60	320	3	10	0.6	150	15		
2SC1213A	NPN	ECB	400	500	50	50	4	60	320	3	10	0.6	150	15		
2SC1318	NPN	ECB	625	500	60	50	6	85	340	10	150	0.6	300	30	200+	
2SC1674	NPN	ECB	250	20	30	20	4	40	180	6	1	0.3	10	1	400	
2SC1959	NPN	ECB	500	500	35	30	5	70	400	1	100	0.25	100	10	200	
2SC2001	NPN	ECB	600	700	30	25	5	90	400	1	100	0.6	700	70	50	
2SC2120	NPN	ECB	600	800	35	30	5	100	320	1	100	0.5	500	20	100	
2SC2216	NPN	BEC	300	50	50	45	4	40	140	12.5	12.5	0.2	15	1.5	300	
2SC3279	NPN	ECB	750	2000	30	10	6	140	600	1	500	0.82	2000	100	100	
2SC380TM	NPN	ECB	300	50	35	30	4	40	240	12	2	0.4	10	1	100	
2SC536	NPN	ECB	400	100	40	30	5	60	960	6	1	0.5	50	5	100+	
2SD1513	NPN	ECB	625	2000	20	16	6	135	650	2	100	0.4	1000	10	100	
2SD1616*	NPN	ECB	750	1000	60	50	6	135	600	2	100	0.3	1000	50	100	
8050S	NPN	ECB	625	500	40	25	5	85	300	1	50	0.6	500	50	150	
8050SS	NPN	ECB	1000	1500	40	25	5	85	300	1	100	0.5	800	80	100	
8550S	PNP	ECB	625	500	40	25	5	85	300	1	50	0.6	500	50	150	
8550SS	PNP	ECB	1000	1500	40	25	5	85	300	1	100	0.5	800	80	100	
A1015	PNP	ECB	400	150	50	50	5	70	400	6	2	0.3	100	10	80	
A42	NPN	EBC	625	500	300	300	5	80	250	10	10	0.2	20	2	50	
A44	NPN	EBC	625	200	400	400	5	80	300	10	10	0.2	10	1	50	
A733	PNP	ECB	250	100	60	50	5	90	600	6	1	0.3	100	10	100	
A92	PNP	EBC	625	500	300	300	5	80	250	10	10	0.2	20	2	50	
A94	PNP	EBC	625	200	400	400	5	80	300	10	10	0.2	10	1	50	
B772	PNP	ECB	625	3000	40	30	6	60	400	2	1000	0.5	2000	200	50	
BC184,B,C	NPN	CBE	350	100	45	30	6	240	900	5	2	0.6	100	5	150	
BC212,B,C	PNP	EBC	350	100	60	50	5	140	600	5	2	0.6	100	5	200	
BC237	NPN	CBE	350	100	50	45	6	120	800	5	2	0.6	100	5	100+	

Transistors in TO-92

	POLARITY	PIN ARRAY	PD (mW)	IC (mA)	BVCBO (V)	BVCEO (V)	BVEBO (V)	hFE		VCE(sat)		fT	VCE(V)	IC(mA)	IB(mA)	(MHz)
								MIN	MAX	MIN	MAX					
BC327	PNP	CBE	625	800	50	45	5	100	630	1	100	0.7	500	50	260	
BC328	PNP	CBE	625	800	30	25	5	100	630	1	100	0.7	500	50	260	
BC337,16,25	NPN	CBE	625	800	50	45	5	100	630	1	100	0.7	500	50	210	
BC338,16,25	NPN	CBE	625	800	30	25	5	100	630	1	100	0.7	500	50	210	
BC347	NPN	EBC	300	100	50	45	5	40	450	5	2	0.3	10	1	125	
BC350	PNP	EBC	300	100	50	45	5	40	450	5	2	0.3	10	1	125	
BC368,-25	NPN	ECB	625	1000	25	20	5	85	375	1	0.5	0.5	1000	100	65	
BC369	PNP	ECB	625	1000	25	20	5	85	375	1	0.5	0.5	1000	100	65	
BC546,B	NPN	CBE	625	100	80	65	6	110	450	5	2	0.3	100	5	150	
BC547,A,B,C	NPN	CBE	625	100	50	45	6	110	800	5	2	0.3	100	5	150	
BC548,A,B,C	NPN	CBE	625	100	30	30	6	110	800	5	2	0.3	100	5	150	
BC549,B,C*	NPN	CBE	625	100	30	30	5	200	800	5	2	0.6	100	5	250	
BC550,B,C*	NPN	CBE	625	100	50	40	4.5	100	800	5	2	0.6	100	5	250	
BC556,B	PNP	CBE	625	100	80	65	6	120	500	5	2	0.3	100	5	150	
BC557,A,B,C	PNP	CBE	625	100	50	45	6	120	800	5	2	0.3	100	5	150	
BC558,B,C	PNP	CBE	625	100	30	30	6	120	800	5	2	0.3	100	5	150	

BC559*	PNP	CBE	625	100	30	30	5	110	800	5	2	0.6	100	5	300+
BC635	NPN	ECB	830	1000	45	45	5	40	250	2	150	0.5	500	50	100+
BC637	NPN	ECB	830	1000	60	60	5	40	150	2	150	0.5	500	50	100+
BC638	PNP	ECB	830	1000	60	60	5	63	250	2	150	0.5	500	50	100
BC639	NPN	ECB	830	1000	100	80	5	63	250	2	150	0.5	500	50	100
BC640	PNP	ECB	830	1000	100	80	5	63	250	2	150	0.5	500	50	100+
BF240	NPN	CEB	300	25	40	40	4	67	220	10	1	0.3	10	1	150
BF370	NPN	CBE	500	100	40	15	4.5	40	200	1	10	0.2	15	1.5	500
BF420	NPN	ECB	830	100	300	300	5	50		20	25	0.6	30	5	60
BF421	PNP	ECB	830	100	300	300	5	50		20	25	0.6	30	5	60
BF422	NPN	ECB	830	100	250	250	5	50		20	25	0.6	30	5	60
BF423	PNP	ECB	830	100	250	250	5	50		20	25	0.6	30	5	60
C1815	NPN	ECB	400	150	60	50	5	70	700	6	2	0.25	100	10	80
C2611	NPN	BCE	750	200	600	400	7	10	40	20	20	0.5	50	10	8
C945	NPN	ECB	400	150	60	50	5	70	700	6	1	0.3	100	10	200
D882	NPN	ECB	750	3000	40	30	6	60	400	2	1000	0.5	2000	200	50
D965	NPN	ECB	750	5000	42	22	6	340	950	2	500	0.35	3000	100	
KSA539	PNP	EBC	400	200	60	45	5	40	240	1	50	0.5	150	15	
KSA642	PNP	EBC	400	300	30	25	5	70	400	1	50	0.6	300	30	
KSB564A	PNP	EBC	800	1000	30	25	5	70	400	1	100	0.5	1000	100	80
KSC815	NPN	EBC	400	200	60	45	5	40	400	1	50	0.4	150	15	100
KSD471A	NPN	EBC	800	1000	40	30	5	70	400	1	100	0.5	1000	100	100
KTA1270	PNP	ECB	625	500	35	30	5	70	240	1	100	0.25	100	10	150

Transistors in TO-92

	POLARITY	PIN ARRAY	PD (mW)	IC (mA)	BVCBO (V)	BVCEO (V)	BVEBO (V)	hFE	VCE(sat)	fT	VCE(V)	IC(mA)	IB(mA)	IB(mA)	(MHz)
KTA1271	PNP	ECB	625	800	35	30	5	100	320	1	100	0.7	500	20	120
KTC3192	NPN	ECB	625	50	35	30	4	40	240	12	2	0.4	10	1	100
KTC3194	NPN	ECB	625	20	40	30	4	40	200	6	1				450
KTC3197	NPN	ECB	625	50	30	25	4	20	200	12.5	12.5	0.2	15	1.5	300
KTC3198	NPN	ECB	625	150	60	50	5	70	700	6	2	0.25	100	10	80
KTC3200	NPN	ECB	625	100	120	120	5	200	700	6	2	0.3	10	1	100+
KTC3202/03	NPN	ECB	625		35	30	5			1	100			10	200+
KTD1146	NPN	ECB	625	5000	40	20	7	120	700	2	500	0.4	3000	60	20
M285	NPN	ECB	625	1000	40	20	6	300	1000	1	100	0.55	600	20	100
M8050	NPN	EBC	625	1000	40	25	6	80	300	1	100	0.5	800	80	150
M8550	PNP	EBC	625	1000	40	25	6	85	300	1	100	0.5	800	80	150
MPS2222	NPN	EBC	625	600	60	30	5	100	300	10	150	1	500	50	300
MPS2222A	NPN	EBC	625	600	75	40	6	100	300	10	150	0.6	500	50	300
MPS2907	PNP	EBC	625	600	60	40	5	100	300	10	150	1	500	50	200
MPS2907A	PNP	EBC	625	600	60	60	5	100	300	10	150	0.6	500	50	200
MPS3702	PNP	EBC	625	800	40	25	5	60	300	5	50	0.25	50	5	100
MPSA05	NPN	EBC	625	500	60	60	4	100		1	100	0.25	100	10	100
MPSA06	NPN	EBC	625	500	80	80	4	100		1	100	0.25	100	10	100
MPSA13	NPN	EBC	625	500	30	30	10	10000		5	100	1.5	100	0.1	125
MPSA14	NPN	EBC	625	500	30	30	10	20000		5	100	1.5	100	0.1	125
MPSA43	NPN	EBC	625	500	200	200	6	40		10	10	0.4	20	2	50
MPSA55	PNP	EBC	625	500	60	60	4	100		1	100	0.25	100	10	50
MPSA56	PNP	EBC	625	500	80	80	4	100		1	10	0.25	100	10	50
MPSA93	PNP	EBC	625	500	200	200	5	40		10	10	0.4	20	2	50
MPSH10/11	NPN	BEC	350	50	30	25	3	60	200	10	4	0.5	4	0.4	650
MPSW56	PNP	EBC	1000	500	80	80	4	100		1	50	0.5	250	10	50+
S8050	NPN	EBC	625	500	40	25	5	85	300	1	50	0.6	500	50	150
S8550	PNP	EBC	625	500	40	25	5	85	300	1	50	0.6	500	50	150
S9011	NPN	EBC	310	30	30	20	4	28	270	5	1	0.3	10	1	150
S9012	PNP	EBC	625	500	40	25	5	64	300	1	50	0.6	500	50	150
S9013	NPN	EBC	625	500	40	25	5	64	300	1	50	0.6	500	50	150
S9014	NPN	EBC	400	100	50	45	5	60	1000	5	1	0.3	100	5	150
S9015	PNP	EBC	450	100	50	45	5	60	1000	5	1	0.3	100	10	150
S9016	NPN	EBC	300	25	30	20	5	28	270	5	1	0.3	10	1	300
S9018	NPN	EBC	400	50	25	18	4	28	270	5	1	0.5	10	1	600
SS8050	NPN	EBC	1000	1500	40	25	5	85	300	1	100	0.5	800	80	100
SS8550	PNP	EBC	1000	1500	40	25	5	85	300	1	100	0.5	800	80	100
STA124	PNP	ECB	625	1000	15	12	6.5	200	450	1	100	0.4	500	50	120+
STC128	NPN	ECB	625	1000	20	15	6.5	150		1	100	0.3	500	50	120+

Transistors in TO-92MOD

	POLARITY	PIN ARRAY	PD (mW)	IC (mA)	BVCBO (V)	BVCEO (V)	BVEBO (V)	hFE	VCE(sat)	fT	VCE(V)	IC(mA)	IB(mA)	IB(mA)	(MHz)
2SA1013	PNP	ECB	900	1000	160	160	6	65	310	5	200	1.5	500	50	15
2SA1020	PNP	ECB	900	2000	50	50	5	70	240	2	500	0.5	1000	50	100+
2SA1160	PNP	ECB	900	2000	20	10	6	140	600	1	500	0.5	2000	50	140+
2SA1283	PNP	ECB	900	1000	60	60	6	55	300	4	100	0.3	500	25	50
2SA1371	PNP	ECB	1000	100	300	300	5	40	320	10	10	0.6	20	2	100
2SA966	PNP	ECB	900	1500	30	30	5	100	320	2	500	2	1500	30	15
2SB560	PNP	ECB	900	700	100	80	5	60	560	5	50	0.8	500	50	100+
2SB647	PNP	ECB	900	1000	120	80	5	60	320	5	150	1	500	50	140
2SB647A	PNP	ECB	900	1000	120	100	5	60	200	5	150	1	500	50	140
2SB740	PNP	ECB	900	1000	70	50	6	100	320	2	100	0.6	1000	100	100
2SB764	PNP	ECB	900	1000	60	50	5	60	320	2	50	0.7	500	50	150+
2SB892	PNP	ECB	1000	2000	60	50	6	100	560	2	100	0.4	1000	50	150
2SB985	PNP	ECB	1000	3000	60	50	6	100	560	2	100	0.7	2000	100	100
2SC1383	NPN	ECB	1000	1000	30	25	5	85	340	10	500	0.4	500	50	100
2SC1384	NPN	ECB	1000	1000	50	50	5	85	340	10	500	0.4	500	50	100
2SC1627A	NPN	ECB	800	400	80	80	5	70	240	2	50	0.4	200	20	80
2SC2060	NPN	ECB	750	1000	40	32	5	80	400	3	100	0.4	500	50	
2SC2229*	NPN	ECB	800	50	200	150	5	70	240	5	10	0.5	10	1	80

2SC2230*	NPN	ECB	800	100	200	160	5	120	400	10	10	0.5	50	5	50
2SC2235	NPN	ECB	900	800	120	120	5	80	240	5	100	1	500	50	120+
2SC2236	NPN	ECB	900	1500	30	30	5	100	320	2	500	2	1500	30	100
2SC2383	NPN	ECB	900	1000	160	160	6	60	320	5	200	1	500	50	20
2SC2482*	NPN	ECB	900	100	300	300	7	30	150	10	20	1	10	1	50
2SC2655	NPN	ECB	900	2000	50	50	5	70	240	2	500	0.5	1000	50	100+
2SC3243	NPN	ECB	900	1000	60	60	6	55	300	4	100	0.3	500	25	80
2SD468	NPN	ECB	900	1000	25	20	5	85	240	2	500	0.5	800	80	190+
2SD667	NPN	ECB	900	1000	120	80	5	60	320	5	150	1	500	50	140+
2SD667A	NPN	ECB	900	1000	120	100	5	60	200	5	150	1	500	50	140+
2SD789	NPN	ECB	900	1000	100	50	6	100	800	2	100	0.3	1000	100	80
KSA910	PNP	ECB	800	50	150	150	5	40	240	5	10	0.8	10	1	80
KSA928A	PNP	ECB	1000	2000	30	30	5	100	320	2	500	2	1500	30	100
KSC2328A	NPN	ECB	1000	2000	30	30	5	100	320	2	500	2	1500	30	80
KSC2330	NPN	ECB	1000	100	300	300	7	40	240	10	20	0.5	10	1	50
KSC2331	NPN	ECB	1000	700	80	60	8	120	240	2	50	0.7	500	50	50

Transistors in TO-92L

	POLARITY	PIN ARRAY	PD (mW)	IC (mA)	BVCBO (V)	BVCEO (V)	BVEBO (V)	hFE	VCE(sat)	fT	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)
KSA928A	PNP	ECB	1000	2000	30	30	5	100	320	2	500	2	1500	30	100	
KTA1273*	PNP	ECB	1000	2000	30	30	5	100	320	2	500	2	1500	30	80+	
KTA1274*	PNP	ECB	1000	400	80	80	5	70	240	2	50	0.4	200	20	80+	
KTC1027	NPN	ECB	1000	800	120	120	5	80	240	5	100	1	500	50	120+	
KTC3205*	NPN	ECB	1000	2000	30	30	5	100	320	2	500	2	1500	30	80+	
KTC3207*	NPN	ECB	1000	100	300	300	7	30	150	10	20	1	10	1	50	
KTC3227*	NPN	ECB	1000	400	80	80	5	70	240	2	50	0.4	200	20	80+	

Transistors in TO-220

	POLARITY	PIN ARRAY	PD (mW)	IC (mA)	BVCBO (V)	BVCEO (V)	BVEBO (V)	hFE	VCE(sat)	fT	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)
2SB834	PNP	BCE	1500	3000	60	60	7	60	200	5	500	1	3000	300	9	
2SD2137*	NPN	BCE	2000	3000	60	60	6	70	320	4	1000	1.2	3000	375	30	
2SD880	NPN	BCE	1500	3000	60	60	7	60	300	5	500	1	3000	300	3	
KTD1351	NPN	BCE	2000	3000	60	60	7	60	300	5	500	1	2000	200	2	
TIP110	NPN	BCE	2000	2000	60	60	5	1000		4	1000	2.5	2000	8		
TIP111	NPN	BCE	2000	2000	80	80	5	1000		4	1000	2.5	2000	8		
TIP112	NPN	BCE	2000	2000	100	100	5	1000		4	1000	2.5	2000	8		
TIP120	NPN	BCE	2000	5000	60	60	5	1000		3	500	4	5000	20		
TIP121	NPN	BCE	2000	5000	80	80	5	1000		3	500	4	5000	20		
TIP122	NPN	BCE	2000	5000	100	100	5	1000		3	500	4	5000	20		
TIP125*	PNP	BCE	2000	5000	60	60	5	1000		3	500	4	5000	20		
TIP126*	PNP	BCE	2000	5000	80	80	5	1000		3	500	4	5000	20		
TIP127*	PNP	BCE	2000	5000	100	100	5	1000		3	500	4	5000	20		
TIP31	NPN	BCE	2000	3000	40	40	5	10	50	4	3000	1.2	3000	375	3	
TIP31A	NPN	BCE	2000	3000	60	60	5	10	50	4	3000	1.2	3000	375	3	
TIP31B	NPN	BCE	2000	3000	80	80	5	10	50	4	3000	1.2	3000	375	3	
TIP31C	NPN	BCE	2000	3000	100	100	5	10	50	4	3000	1.2	3000	375	3	
TIP32	PNP	BCE	2000	3000	40	40	5	10	50	4	3000	1.2	3000	375	3	
TIP32A	PNP	BCE	2000	3000	60	60	5	10	50	4	3000	1.2	3000	375	3	
TIP32B	PNP	BCE	2000	3000	80	80	5	10	50	4	3000	1.2	3000	375	3	
TIP32C	PNP	BCE	2000	3000	100	100	5	10	50	4	3000	1.2	3000	375	3	
TIP41A	NPN	BCE	2000	6000	60	60	5	15	75	4	3000	1.5	6000	600	3	
TIP41B	NPN	BCE	2000	6000	80	80	5	15	75	4	3000	1.5	6000	600	3	
TIP41C	NPN	BCE	2000	6000	100	100	5	15	75	4	3000	1.5	6000	600	3	
TIP42A	PNP	BCE	2000	6000	60	60	5	15	75	4	3000	1.5	6000	600	3	
TIP42B/C	PNP	BCE	2000	6000	80	80	5	15	75	4	3000	1.5	6000	600	3	

Transistor TO-126

	POLARITY	PIN ARR	PD (mW)	IC (mA)	BVCBO (V)	BVCEO (V)	BVEBO (V)	hFE	VCE(sat)	fT	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)
2SD2136*	NPN	ECB	1250	3000	60	60	6	40	250	4	1000	1.2	3000	375	30+	
3CA8772	PNP	ECB	1250	3000	40	30	6	60	400	2	1000	0.5	2000	200	50	
B772	PNP	ECB	1250	3000	40	30	6	60	400	2	1000	0.5	2000	200	50	
BD139	NPN	ECB	1250	1500	80	80	5	40	160	2	150	0.5	500	50	190+	
BD140	PNP	ECB	1250	1500	80	80	5	40	250	2	150	0.5	500	50	160	
BD233	NPN	ECB	1250	2000	45	45	5	40		2	150	0.6	1000	100	3	
BD235	NPN	ECB	1250	2000	60	60	5	40		2	150	0.6	1000	100	3	
BD237	NPN	ECB	1250	2000	100	80	5	40		2	150	0.6	1000	100	3	
BD433	NPN	ECB	1250	4000	22	22	5	40	130	5	10	0.5	2000	200	3	
BD435	NPN	ECB	1250	4000	32	32	5	40	130	5	10	0.5	2000	200	3	
BD437	NPN	ECB	1250	4000	45	45	5	30	130	5	10	0.6	2000	200	3	
D882	NPN	ECB	1250	3000	40	30	6	60	400	2	1000	0.5	2000	200	50	

Transistors in TO-251/252

	POLARITY	PIN ARR	PD (mW)	IC (mA)	BVCBO (V)	BVCEO (V)	BVEBO (V)	hFE	VCE(sat)	fT	VCE(V)	IC(mA)	(V)	IC(mA)	IB(mA)	(MHz)
2SA1700	PNP	BCE	1000	200	400	400	5	60	200	10	50	0.6	50	5	70+	
2SB1261-Z	PNP	BCE	2000	3000	60	60	7	100	400	2	600	0.3	1500	150	120+	
2SC4003	NPN	BCE	1000	200	400	400	5	60	200	10	50	0.6	50	5	70+	
2SD1758	NPN	BCE	2000	2000	40	32	5	82	390	3	500	0.8	2000	200	80	
2SD1899-Z	NPN	BCE	2000	3000	60	60	7	100	400	2	600	0.25	1500	150	120+	
B772	PNP	BCE	1250	3000	40	30	6	60	400	2	1000	0.5	2000	200	50	
D882	NPN	BCE	1250	3000	40	30	6	60	400	2	1000	0.5	2000	200	50	

TIP29	NPN	BCE	1000	1000	40	40	5	15	75	4	1000	0.7	1000	125	3
TIP29A	NPN	BCE	1000	1000	60	60	5	15	75	4	1000	0.7	1000	125	3
TIP29B	NPN	BCE	1000	1000	80	80	5	15	75	4	1000	0.7	1000	125	3
TIP29C	NPN	BCE	1000	1000	100	100	5	15	75	4	1000	0.7	1000	125	3

IC Regulator

	PD	IO	VI	VO	Iq	PACKAGING	PIN ARRAY
	(mW)	(mA)	(V)	(V)	(mA)		
CJ431	350	10		VREF 2.44		SOT-23-3L	RCA
CJ431	500	10		VREF 2.44		SOT-89	RAC
CJ431	770	10		VREF 2.44		TO-92	RAC
CJ7805	2000	1500	35	4.8~5.2		TO-220	IGO
CJ7806	2000	1500	35	5.75~6.25		TO-220	IGO
CJ7808	2000	1500	35	7.7~8.3		TO-220	IGO
CJ7809	2000	1500	35	8.65~9.35		TO-220	IGO
CJ7812	2000	1500	40	11.5~12.5	8	TO-220	IGO
CJ7815	2000	1500	35	14.4~15.6	8	TO-220	IGO
CJ78L05	350	100	30	4.8~5.2	6	SOT-23-3L	OIG
CJ78L05	500	100	30	4.8~5.2	6	SOT-89	OIG
CJ78L05	625	100	30	4.8~5.2	6	TO-92	OIG
CJ78L06	350	100	30	5.75~6.25	6	SOT-23-3L	OIG
CJ78L06	500	100	30	5.75~6.25	6	SOT-89	OIG
CJ78L06	625	100	30	5.75~6.25	6	TO-92	OIG
CJ78L08	350	100	30	7.7~8.3	6	SOT-23-3L	OIG
CJ78L08	500	100	30	7.7~8.3	6	SOT-89	OIG
CJ78L08	625	100	30	7.7~8.3	6	TO-92	OIG
CJ78L09	350	100	30	8.64~9.36	6	SOT-23-3L	OIG
CJ78L09	500	100	30	8.64~9.36	6	SOT-89	OIG
CJ78L09	625	100	30	8.64~9.36	6	TO-92	OIG
CJ78L12	350	100	35	11.5~12.5	6.5	SOT-23-3L	OIG
CJ78L12	500	100	35	11.5~12.5	6.5	SOT-89	OIG
CJ78L12	625	100	35	11.5~12.5	6.5	TO-92	OIG
CJ78L15	500	100	30	14.4~15.6	6.5	SOT-89	OIG
CJ78L15	625	100	30	14.4~15.6	6.5	TO-92	OIG
CJ78L18	500	100	30	17.3~18.7	6.5	SOT-89	OIG
CJ78L18	625	100	30	17.3~18.7	6.5	TO-92	OIG
CJ78M05	2000	500	25	4.8~5.2	6	TO-220	IGO
CJ78M05	1250	500	25	4.8~5.2	6	TO-252	IGO
CJ79L15	2000	1500	-35	-14.4~-15.6	3	TO-220	GIO
CJ79L05	350	100	-30	-4.8~-5.2	6	SOT-23-3L	GIO
CJ79L05	500	100	-30	-4.8~-5.2	6	SOT-89	GIO
CJ79L05	625	100	-30	-4.8~-5.2	6	TO-92	GIO
CJ79L06	350	100	-30	-5.75~-6.25	6	SOT-23-3L	GIO
CJ79L06	500	100	-30	-5.75~-6.25	6	SOT-89	GIO
CJ79L06	625	100	-30	-5.75~-6.25	6	TO-92	GIO
CJ79L08	350	100	-30	-7.7~-8.3	6	SOT-23-3L	GIO
CJ79L08	500	100	-30	-7.7~-8.3	6	SOT-89	GIO

IC Regulator

CJ79L08	625	100	-30	-7.7~-8.3	6	TO-92	GIO
CJ79L09	350	100	-30	-8.64~-9.36	6	SOT-23-3L	GIO
CJ79L09	500	100	-30	-8.64~-9.36	6	SOT-89	GIO
CJ79L09	625	100	-30	-8.64~-9.36	6	TO-92	GIO
CJ79L12	350	100	-35	-11.5~-12.5	6.5	SOT-23-3L	GIO
CJ79L12	500	100	-35	-11.5~-12.5	6.5	SOT-89	GIO
CJ79L12	625	100	-35	-11.5~-12.5	6.5	TO-92	GIO
CJ79L15	500	100	-35	-14.4~-15.6	6.5	SOT-89	GIO
CJ79L15	625	100	-35	-14.4~-15.6	6.5	TO-92	GIO

SCR

	VDRM	VRRM	IT(AV)	VGT	IGT	VTM	MAX(μA)	(V)	PACKAGING TYPE
	(V)	(V)	(A)	(V)	VAK(V)	MIN(μA)			
MAC97A6*	400	400	1	1.5	12		15000	1.9	TO-92
PCR0.6A	400		0.6	0.8	7	5	120	1.7	SOT-223
PCR0.6A	400		0.6	0.8	7	5	120	1.7	TO-92
PCR100-6*	400	400	0.8	0.8	7	5	200	1.7	TO-92
PCR100-8*	600	600	0.8	0.8	7	5	200	1.7	TO-92

JUNCTION FIELD EFFECT TRANSISTOR

	PD	ID	BVGD0	IDSS	VGS(OFF)										
	(mW)	(mA)	(V)	(μA)	VDS(V)	VGS(V)	(V)	VDS(V)	ID(μA)	Ciss	CRSS	VDS(V)	PACKAGING	PIN ARRAY	
K596-A	100	1	-20	100~170	5	0	1.5	5	1	3.5	0.65	5	TO-92S	SGD	
K596-B	100	1	-20	150~240	5	0	1.5	5	1	3.5	0.65	5	TO-92S	SGD	
K596-C	100	1	-20	210~350	5	0	1.5	5	1	3.5	0.65	5	TO-92S	SGD	
K596-D	100	1	-20	320~480	5	0	1.5	5	1	3.5	0.65	5	TO-92S	SGD	
K596-E	100	1	-20	400~800	5	0	1.5	5	1	3.5	0.65	5	TO-92S	SGD	

FIELD EFFECT TRANSISTOR

	PD	ID	V(BR)DSS	rDS(on)(max)	VGS(th)	gfs(min)									
	(W)	(A)	(V)	(Ω)	ID(A)	VGS(V)	(V)	ID(μA)	(S)	VDS(V)	ID(A)	PACKAGING	PIN ARRAY		
2N7000	0.35	0.2	60	5	0.5	10	0.8~3	1000	100μs	10	0.2	TO-92	SGD		
2N7002	0.2	0.25	60	3	0.25	10	1~2.5	250	0.3+	15	0.2	SOT-23	GSD		
2N7002W	0.2	0.115	60	13.5	0.5	10	1~2	250	0.08	10	0.2	SOT-323	GSD		
CJP02N60	2	2	600	3.8	1	10	2~4	250	1	50	1	TO-220	GDS		
CJP03N50*	2	3	500	3	1.5	10	2~4	250	1	15	1.5	TO-220	GDS		
CJP03N60*	2	3	600	2.2	1.5	10	2~4	250	1.5	15	1.5	TO-220	GDS		
CJP04N20*	2	4	200	1.2	2	10	2~4	250	1.5	15	2	TO-220	GDS		
CJP04N40*	2	4	400	1.8	2	10	2~4	250	1.8	15	2	TO-220	GDS		
CJP04N50*	2	4	500	1.5	2	10	2~4	250	1.5	15	2	TO-220	GDS		

CJP04N60*	2	4	600	2.2	2	10	2~4	250	2.8+	40	2	TO-220	GDS
CJP05N40*	2	5	400	1	2.5	10	2~4	250	2	15	2.5	TO-220	GDS
CJP06N60*	2	6	600	1.2	3	10	2~4	250	2	15	3	TO-220	GDS
CJP07N20*	2	7	200	0.7	3.5	10	2~4	250	1.5	14	3.5	TO-220	GDS
CJP07N80*	2	7	800	2	6	10	2~4	250	3	50	6	TO-220	GDS
CJP08N20*	2	8	200	0.18	10	10	2~4	250	3.8	50	5.4	TO-220	GDS
CJP08N50*	2	8	500	0.8	4	10	2~4	250	4	15	4	TO-220	GDS
CJP09N60*	2	9	600	1.2	6	10	2~4	250	3	50	6	TO-220	GDS
CJP10N10*	2	10	100	0.22	5	5	1~2	250	5	8	5	TO-220	GDS
CJP10N40*	2	10	400	0.55	5	10	2~4	250	4+	15	5	TO-220	GDS
CJP10N45*	2	10	450	0.7	6	10	2~4	250	3	50	6	TO-220	GDS
CJP10N60*	2	10	600	0.75	5	10	2~4	250	3	15	5	TO-220	GDS
CJP12N10*	2	12	100	0.16	6	10	2~4	250	4	15	6	TO-220	GDS
CJP16N25*	2	16	250	0.25	8	10	2~4	250	3	15	8	TO-220	GDS
CJP18N20*	2	18	200	0.18	10	10	2~4	250	6	3.2	10	TO-220	GDS
CJP20N15*	2	20	150	0.13	10	10	2~4	250	8	13	10	TO-220	GDS
CJP20N20*	2	20	200	0.16	10	10	2~4	250	8	13	10	TO-220	GDS
CJT01N10	0.8	1	100	0.25	0.5	10	2~4.5	1000	2.2+	10	0.5	SOT-223	GDS
CJU03N25*	1.25	3	250	2	1.5	10	2~4	250	2.3+	15	1.5	TO-252	GDS
CJU05N25*	1.25	5	250	1	2.5	10	2~4	250	1.5	15	2.5	TO-252	GDS
CJU06N10*	1.25	6	100	0.4	3	10	2~4	250	1.5	15	2.5	TO-252	GDS
IRF630	2	9	200	0.4	5	10	2~4	250	3	3.6	5	TO-220	GDS
IRF640	2	18	200	0.18	11	10	2~4	250	6.7	50	11	TO-220	GDS
IRF820	2	2.5	500	3	1.5	10	2~4	250	1.5	10	2	TO-220	GDS
IRF830*	2	4.5	500	1.5	2.7	10	2~4	250	2.5	50	2.7	TO-220	GDS
IRF840*	2	8	500	0.85	4.8	10	2~4	250	4.9	50	4.8	TO-220	GDS

DIGITAL TRANSISTOR

	PACKAGING	POLARITY	PIN ARRAY	PD (mW)	IO (mA)	VCC (V)	Gi	VO(on) (V)	R1 (Ω)	R2 (Ω)	fT (MHz)	MARKING
DTA114ECA	SOT-23	PNP	GIO	200	50	50	30	0.3	10K	10K	250+	14
DTA114EKA	SOT-23-3L	PNP	GIO	200	50	50	30	0.3	10K	10K	250+	14
DTA114ESA	TO-92S	PNP	GIO	300	50	50	30	0.3	10K	10K	250+	
DTA114EUA	SOT-323	PNP	GIO	200	50	50	30	0.3	10K	10K	250+	14
DTA114TCA	SOT-23	PNP	GIO	200	100	50	100	0.3	10K		0 250+	94
DTA114TKA	SOT-23-3L	PNP	GIO	200	100	50	100	0.3	10K		0 250+	94
DTA114TSA	TO-92S	PNP	GIO	300	100	50	100	0.3	10K		0 250+	
DTA114TUA	SOT-323	PNP	GIO	200	100	50	100	0.3	10K		0 250+	94
DTA143ZKA	SOT-23-3L	PNP	GIO	200	100	50	80	0.3	4.7K	47K	250+	E13
DTA143ZSA	TO-92S	PNP	GIO	300	100	50	80	0.3	4.7K	47K	250+	
DTA143ZUA	SOT-323	PNP	GIO	200	100	50	80	0.3	4.7K	47K	250+	113
DTC114ECA	SOT-23	NPN	GIO	200	50	50	30	0.3	10K	10K	250+	24
DTC114EKA	SOT-23-3L	NPN	GIO	200	50	50	30	0.3	10K	10K	250+	24
DTC114ESA	TO-92S	NPN	GIO	300	50	50	30	0.3	10K	10K	250+	
DTC114EUA	SOT-323	NPN	GIO	200	50	50	30	0.3	10K	10K	250+	24
DTC114TKA	SOT-23-3L	NPN	GIO	200	100	50	100	0.3	10K		0 250+	4
DTC114TSA	TO-92S	NPN	GIO	300	100	50	100	0.3	10K		0 250+	
DTC114TUA	SOT-323	NPN	GIO	200	100	50	100	0.3	10K		0 250+	4
DTC114YKA	SOT-23-3L	NPN	GIO	200	70	50	68	0.3	10K	47K	250+	64
DTC114YSA	TO-92S	NPN	GIO	300	70	50	68	0.3	10K	47K	250+	
DTC114YUA	SOT-323	NPN	GIO	200	70	50	68	0.3	10K	47K	250+	64
DTC143XCA	SOT-23	NPN	GIO	200	100	50	30	0.3	4.7K	10K	250+	43
DTC143XKA	SOT-23-3L	NPN	GIO	200	100	50	30	0.3	4.7K	10K	250+	43
DTC143XSA	TO-92S	NPN	GIO	300	100	50	30	0.3	4.7K	10K	250+	
DTC143XUA	SOT-323	NPN	GIO	200	100	50	30	0.3	4.7K	10K	250+	43
DTC144ECA	SOT-23	NPN	GIO	200	100	50	68	0.3	47K	47K	250+	26
DTC144EKA	SOT-23-3L	NPN	GIO	200	100	50	68	0.3	47K	47K	250+	26
DTC144ESA	TO-92S	NPN	GIO	300	100	50	68	0.3	47K	47K	250+	
DTC144EUA	SOT-323	NPN	GIO	200	100	50	68	0.3	47K	47K	250+	26

ZENER VOLTAGE DIODES

	PD (mW)	VZ(V)	ZzT(Ω)	ZzK(Ω)	VF (V)	IF(mA)	
BZT52CS	200	2.0~39	10~130	80~600	0.9	10	SOD-323
BZT52C	500	2.4~51	10~100	80~750	0.9	10	SOD-123
BZX84CW	200	2.4~39	15~130	80~600	0.9	10	SOT-323
BZX84C	350	2.4~51	10~180	80~600	0.9	10	SOT-23
MMBZ5221E	350	2.4~39	5~80	500~2000	0.9	10	SOT-23
MMBZ5221E	200	2.4~39	5~80	500~2000	0.9	10	SOT-323
MMSZ5221E	500	2.4~39	3.2~20	500~2000	0.9	10	SMS-123
MMSZ5221E	200	2.4~39	5~80	500~2000	0.9	10	SOD-323

SWITCHING TRANSISTOR FOR POWER-SAVING LAMP AND RECTIFIER

	PACKAGING	PIN ARRANGEMENT	PD (mW)	IC (mA)	BVCBO (V)	BVCEO (V)	BVEBO (V)	hFE	VCE(sat)	fT (MHz)	IC(mA)	VCE(V)	IC(mA)	IB(mA)	(MHz)	
3DD13001	TO-252	BCE	1200	200	600	400	400	7	10	40	20	20	0.5	50	10	5
3DD13001	TO-92	BCE	750	200	600	400	400	7	10	70	20	20	0.5	50	10	5
3DD13002	TO-126	BCE	1250	1000	600	400	400	6	9	40	10	200	0.8	200	40	5
3DD13002	TO-251	BCE	1250	1000	600	400	400	6	9	40	10	200	0.8	200	40	5
3DD13002.B	TO-92	ECB	750	1000	600	400	400	6	9	40	10	200	0.8	200	40	5
3DD13003	TO-126	BCE	1250	1500	700	400	400	9	8	40	2	500	1	1000	250	5
3DD13003	TO-220	BCE	2000	1500	700	400	400	9	8	40	2	500	1	1000	250	5
3DD13005	TO-220	BCE	2000	4000	700	400	400	9	10	40	5	1000	0.6	2000	500	5
3DD13007	TO-220	BCE	2000	8000	700	400	400	9	8	40	5	2000	1.5	5000	1000	4
C2611	TO-251	ECB	1000	200	600	400	400	7	10	40	20	20	0.5	50	5	5