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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
	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)	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















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