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Surface Mount (SMD) Transistors/Diode FAQ

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Chapter 1) Introduction

1.1) About the Author

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1.2) Disclaimer & Copyright

All the above information has been gathered from multiple sources that I have managed to track down, so hopefully it will all be correct and accurate to my knowledge, any additions can be e-mail'd to myself and the list will be updated for the next release of the FAQ, hope you find this information useful.

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Chapter 2) Cross-Reference

2.1) Regular Transistors

Case Marking	Type	Conventional Equivalent
==	=====	=====
15	MMBT3960	2N3960
1A	FMMT3904	2N3904
1B	BC846B	BC546B / 2N2222
1C	MMBTA20	MPSA20
1E	BC847A	BC547A
1F	BC847B	BC547B
1G	BC847C / FMMTA06	BC547C
1J	BC848A / FMMT2369	BC548A / 2N2369
1K	BC848B	BC548B
1L	BC848C	BC548C
1P	FMMT2222A	2N2222A
1T	MMBT3960A	2N3960A
1X	MMBT930	-
1Y	MMBT3903	2N3903
2A	FMMT3906	2N3906
2B	MMBT2907	2N2907
2C	BC849C	BC549C / BC109C / MMBTA70
2E	FMMTA93	-
2F	FMMT2907A	2N2907A
2J	MMBT3640	2N3640
2K	MMBT8598	-
2M	MMBT404	-
2N	MMBT404A	-
2T	MMBT4403	2N4403
2W	MMBT8599	-
2X	MMBT4401	2N4401
3A	BC856A / MMBTH24	BC556A
3B	BC856B / FMMT918	BC556B
3D	MMBTH81	-
3E	BC857A / MMBTH10	BC557A
3F	BC857B	BC557B
3G	BC857C	BC557C
3J	BC858A	BC558A
3K	BC858B	BC558B
3L	BC858C	BC558C
4A	BC859A	BC559A
4B	BC859B	BC559B
4C	BC859C	BC559C
4E	FMMTA92	-
4J	FMMT38A	-
449	FMMT449	-
489	FMMT489	-
491	FMMT491	-
493	FMMT493	-
5A	BC807-16	-
5B	BC807-25	BC327-25 / 2N4123
5C	BC807-40	-
5E	BC808-16	-
5F	BC808-25	BC328-25
5G	BC808-40	-
549	FMMT549	-
589	FMMT589	-
591	FMMT591	-
593	FMMT593	-
6A	BC817-16	-
6B	BC817-25	BC337-25
6C	BC817-40	-
6E	BC818-16	-
6F	BC818-25	-
6G	BC818-40	-
6H	BC818-40	BC338-40

AA	BCX51	BC636 / BCW60A
AB	BCW60B	-
AC	BCW60C	BC548B
AD	BCW60D	-
AE	BCX52	-
AG	BCX70G	-
AH	BCX70H	-
AJ	BCX70J	-
AK	BCX70K	-
AL	MMBTA55	-
AM	BSS64	2N3638
AS1	BST50	BSR50
B2	BSV52	PH2369 / BSX20
BA	BCX54 / BCW61A	BC635
BB	BCW61B	-
BC	BCW61C	-
BD	BCW61D	-
BE	BCX55	-
BG	BCX71G	-
BH	BCX56	BC639
BJ	BCX71J	-
BK	BCX71K	-
BN	MMBT3638A	2N3638A
BR2	BSR31	2N4031
C1	BCW29	-
C2	BCW30	BC178B / BC558B
C5	MMBA811C5	-
C6	MMBA811C6	-
C7	MMBA811C7	-
C8	MMBA811C8	-
CE	BSS79B	-
CEC	BC869	BC369
CF	BSS79C	-
CH	BSS82B / BSS80B	-
CJ	BSS80C	-
CM	BSS82C	-
D1	BCW31	BC108A / BC548A
D2	BCW32	BC108A / BC548A
D3	BCW33	BC108C / BC548C
D6	MMBC1622D6	-
D7	MMBC1622D7	-
D8	BCF33	BC549C / BCY58 / MMBC1622D8
DA	BCW67A	-
DB	BCW67B	-
DE	BFN18	-
DF	BCW68F	-
DG	BCW68G	-
DH	BFN19	-
E1	BFS17	BFY90 / BFW92
EA	BCW65A	-
EB	BCW65B	-
EC	BCW65C / BCW67C	-
F1	MMBC1009F1	-
F3	MMBC1009F3	-
FA	BFQ17	BFW16A
FE	BCV46	-
FG	BCV47	-
GF	BFR92P	-
H1	BCW69	-
H2	BCW70	BC557B
K1	BCW71	BC547A
K2	BCW72	BC547B
K4	BCW71R	-
K7	BCV71	-
L1	BSS65	-
L2	BSS70	-
L3	MMBC1323L3	-
L4	MMBC1623L4	-
L5	MMBC1623L5	-

L6	MMBC1623L6	-
L7	MMBC1623L7	-
M3	MMBA812M3	-
M4	MMBA812M4	-
M5	MMBA812M5	-
M6	BSR58 / MMBA812M6	2N4858
M7	MMBA812M7	-
O2	BST82	-
P1	BFR92	BFR90
P2	BFR92A	BFR90
P5	FMMT2369A	2N2369A
Q3	MMBC1321Q3	-
Q4	MMBC1321Q4	-
Q5	MMBC1321Q5	-
R1	BFR93	BFR91
R2	BFR93A	BFR91
S1A	SMBT3904	-
S1D	SMBTA42	-
S2	MMBA813S2	-
S2A	SMBT3906	-
S2D	SMBTA92	-
S2F	SMBT2907A	-
S3	MMBA813S3	-
S4	MMBA813S4	-
T1	BCX17	BC327
T2	BCX18	-
T7	BSR15	2N2907
T8	BSR16	2N2907A
U1	BCX19	BC337
U2	BCX20	-
U7	BSR13	2N2222
U8	BSR14	2N2222A
U92	BSR17A	2N3904
Z2V	FMMTA64	-
ZD	MMBT4125	2N4125

2.2) JFET Transistors

Case Marking	Type	Conventional Equivalent
==	=====	=====
6A	MMBF4416	
6B	MMBF5484	
6C	MMBFU310	
6D	MMBF5457	
6E	MMBF5460	
6F	MMBF4860	
6G	MMBF4393	
6H	MMBF5486	
6J	MMBF4391	
6K	MMBF4932	
6L	MMBF5459	
6T	MMBFJ310	
6W	MMBFJ175	
6Y	MMBFJ177	
B08	SST6908	
B09	SST6909	
B10	SST6910	
C11	SST111	
C12	SST112	
C13	SST113	
C41	SST4091	
C42	SST4092	
C43	SST4093	
C59	SST4859	
C60	SST4860	

C61	SST4861
C91	SST4391
C92	SST4392
C93	SST4393
H16	SST4416
I08	SST108
I09	SST109
I10	SST110
M4	BSR56
M5	BSR57
M6	BSR58
P01	SST201
P02	SST202
P03	SST203
P04	SST204
S14	SST5114
S15	SST5115
S16	SST5116
S70	SST270
S71	SST271
S74	SST174
S75	SST175
S76	SST176
S77	SST177
TV	MMBF112
Z08	SST308
Z09	SST309
Z10	SST310

2.3) MOSFET Transistors

Case Marking	Type	Conventional Equivalent
==	=====	=====
6Z	MMBF170	
701	2N7001	
702	SN7002	
SA	BSS123	
SS	BSS138	
V01	VN50300T	
V02	VN0605T	
V04	VN45350T	
V0AJ	TP610T	
V50	VP0610T	

2.4) Diode List

Case Marking	Type	Conventional Equivalent
===	=====	=====
005	SSTPAD5	Dual Diode
010	SSTPAD10	Dual Diode
020	SSTPAD20	Dual Diode
050	SSTPAD50	Dual Diode
100	SSTPAD100	Dual Diode
200	SSTPAD200	Dual Diode
4D	MMBV3401	PIN Diode
4F	MMBD353	Dual Schottky diode
4M	MMBD101	Schottky diode
4R	MMBV3700	PIN diode
4S	MMBD201	Schottky diode
4T	MMBD301	Schottky diode

500	SSTPAD500	Dual Diode
5AX	MMBD6050X	-
5B	MMBD6100	-
5C	MMBD7000	-
5DX	MMBD914X	-
5D	FMMD914	1N914
5F	MMBD501	Schottky diode
5G	MMBD352	Dual Schottky diode
5H	MMBD701	Schottky diode
A1	BAW56	-
A1X	MBAW56	Dual diode
A2X	MMBD2836X	Dual diode
A3	BAT17	BA480
A3X	MMBD2835X	Dual diode
A4	BAV70	BAW62 / 1N4148
A4X	MBAV70	Dual diode
A6	BAS16	BAW62 / 1N4148
A61	BAS28	BAW62 / 1N4148
A6X	MBAS16	(MMBD2836X Dual version)
A7	BAV99	BAW62 / 1N4148
A7X	MBAV99	Dual diode
ITT BA	BAT42W	-
JAX	BAT42W	Dual diode
JD	BAW56	-
JE	BAV99	-
JJ	BAV70	-
JS	BAS21	BAV21
JP	BAS19	BAV19
L4P	BAT54/T1	BAT85
L42	BAT54A/T1	BAT85
L44	BAT54S/T1	BAT85
PSS	BAR64-04	Dual diode
PRS	BAR64-05	Dual diode
TFX	MBAL99	-

2.5) SOT323 Type

Case Marking	Type	Conventional Equivalent
===	=====	=====
A1	BAW56W	-
A4	BAV70W	-
A6	BAS16W	-
A7	BAV99W	-

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