

## Small-signal Transistors and Diodes

## Cross Reference Transistors

### PHILIPS GA TRANSISTORS CROSS REFERENCE

COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
2N2925	ED1402D
2N3903	2N3904
2N3904	2N3904
2N3904	2N3904
2N3905	2N3906
2N3906	2N3906
2N3906	2N3906
2N4123	2N3904
2N4124	2N3904
2N4125	2N3904
2N4400	2N4401
2N4401	2N4401
2N4401	2N4401
2N4402	2N4403
2N4403	2N4403
2N4403	2N4403
2N4410	MPSA06
2N5087	MPS3906
2N5087	MPS3906
2N5088	MPS3904
2N5089	MPS3904
2N5209	BC547B
2N5210	BC547B
2N5232A	BC547B
2N5400	2N5401
2N5401	2N5401
2N5401	2N5401
2N5550	2N5550
2N5551	2N5551
2N5551	2N5551
2N6426	MPSA14
2N6426	MPSA14
2N6427	MPSA14
2N6517	MPSA44
2N6519	MPSA92
2SA1036K	BSR15
2SA1037AK	2PB709AS
2SA1576A	2PA1576S
2SA1579	PMST5401

COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
2SA1759	PXTA92
2SA1774	2PA1774Q
2SA1774	2PA1774S
2SA1797	BCX52-16
2SA1900	BCX52-16
2SB1132	BCX51-16
2SB1189	BSR33
2SB1260	BCX53-16
2SB1424	BC869
2SB1561	BSR31
2SB1580	BST62
2SC1651S	BF422L
2SC2062S	BC618
2SC2411K	2PD601AS
2SC2412K	2PD1820AS
2SC2413K	2PD601AQ
2SC4081	2PC4081Q
2SC4097	2PC4081Q
2SC4098	BC847AW
2SC4102	PMST5550
2SC4132	BSR43
2SC4505	PXTA42
2SC4617	2PC4617Q
2SC4618	BC847AT
2SC4672	BCX55-16
2SC4997	BC847CT
2SC4998	PMST6429
2SC5053	BCX55-16
2SD1484K	2PD602AR
2SD1664	BCX54
2SD1757K	2PD602AS
2SD1766	BC868
2SD1767	BCX56-16
2SD1781K	2PD602AR
2SD1782K	2PD602AS
2SD1834	BST51
2SD1898	BCX56-16
2SD1949	2PD1820AS
2SD2098	BC868-25

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COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
2SD2150	BC868
2SD2153	BC868
2SD2195	BST52
2SD2351	PMST6429
2SD2391	BSR41
BC237	BC547B
BC237A	BC547B
BC237B	BC547B
BC307	BC557B
BC307B	BC557B
BC327	BC327
BC327-16	BC327-16
BC327-25	BC327-25
BC328	BC327
BC328-16	BC327-16
BC328-25	BC327-25
BC337	BC337
BC337-16	BC337-16
BC337-25	BC337-25
BC337-40	BC337-40
BC338	BC337
BC338-16	BC337-16
BC338-25	BC337-25
BC338-40	BC337-40
BC368	BC368
BC369	BC369
BC373	BC618
BC489A	MPSA06
BC490A	MPSA56
BC517	BC517
BC546	BC546
BC546B	BC546B
BC547	BC547
BC547A	BC546A
BC547B	BC547B
BC547C	BC547C
BC548	BC547
BC548A	BC546A
BC548B	BC547B
BC548C	BC547C

COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
BC549B	BC547B
BC549C	BC549C
BC550B	BC547B
BC550C	BC550C
BC556	BC556
BC556B	BC556B
BC557	BC557
BC557A	BC556A
BC557B	BC557B
BC557C	BC557C
BC558B	BC557B
BC559B	BC556B
BC559C	BC559C
BC560C	BC557C
BC618	BC618
BC635	BC635
BC636	BC636
BC637	BC637
BC638	BC640-16
BC639	BC639
BC640	BC640
BC807-16LT1	BC807-16
BC807-25	BC807-25
BC807-25LT1	BC807-25
BC807-40	BC807-40
BC807-40LT1	BC807-40
BC808-16W	BC807-16W
BC817-16LT1	BC817-16
BC817-25	BC817-25
BC817-25LT1	BC817-25
BC817-40	BC817-40
BC817-40LT1	BC817-40
BC818-16W	BC817-16W
BC818W	BC817W
BC846...850	BC846
BC846ALT1	BC846A
BC846AWT1	BC846AW
BC846BLT1	BC846B
BC846BWT1	BC846BW
BC846W..850W	BC846W

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COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
BC847A	BC847A
BC847ALT1	BC847A
BC847AWT1	BC847AW
BC847B	BC847B
BC847BLT1	BC847B
BC847BW	BC847BW
BC847BWT1	BC847BW
BC847C	BC847C
BC847CLT1	BC847C
BC847CWT1	BC847CW
BC847PN	BC847BPN
BC847S	BC847BS
BC848A	BC847A
BC848ALT1	BC847A
BC848AWT1	BC847AW
BC848B	BC847B
BC848BLT1	BC847B
BC848BWT1	BC847BW
BC848C	BC847C
BC848CLT1	BC847C
BC848CWT1	BC847CW
BC849BLT1	BC849B
BC849CLT1	BC849C
BC850BLT1	BC850B
BC850CLT1	BC850C
BC856...860	BC856
BC856ALT1	BC856A
BC856AWT1	BC856AW
BC856BLT1	BC856B
BC856BWT1	BC856BW
BC856W..860W	BC856W
BC857A	BC857A
BC857ALT1	BC857A
BC857AWT1	BC857AW
BC857B	BC857B
BC857BLT1	BC857B
BC857BWT1	BC857BW
BC857S	BC857BS
BC858ALT1	BC857A
BC858AWT1	BC857AW

COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
BC858B	BC857B
BC858BLT1	BC857B
BC858BW	BC857BW
BC858BWT1	BC857BW
BC858CLT1	BC857C
BC858CWT1	BC857CW
BCP28	BSP62
BCP29	PZTA14
BCP51...53	BCP51
BCP53T1	BCP53
BCP54...56	BCP54
BCP56-10T1	BCP56-10
BCP56-16T1	BCP56-16
BCP56T1	BCP56
BCP68-10	BCP68
BCP68-16	BCP68
BCP68T1	BCP68
BCP69-10	BCP69
BCP69T1	BCP69
BCR108	PDTC123JT
BCR10PN	PUMD3
BCR112	PDTC143ET
BCR112W	PDTC143EU
BCR116	PDTC143ZT
BCR119	PDTC143TT
BCR119S	PUMH7
BCR133	PDTC114ET
BCR133S	PUMH11
BCR133W	PDTC114EU
BCR135	PDTC114YT
BCR141	PDTC124ET
BCR141S	PUMH1
BCR141W	PDTC124EU
BCR146	PDTC144WT
BCR146W	PDTC144WU
BCR148	PDTC144ET
BCR148W	PDTC144EU
BCR162	PDTA143ET
BCR162W	PDTA143EU
BCR166	PDTA143ZT

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COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
BCR183W	PDTA114EU
BCR191	PDTA124ET
BCR196W	PDTA144WU
BCR198	PDTA144ET
BCR198W	PDTA144EU
BCR22PN	PUMD2
BCR35PN	PUMD9
BCR533	PDTD114ET
BCV26	BCV26
BCV27	BCV27
BCV28	BCV28
BCV29	BCV29
BCV46	BCV46
BCV47	BCV47
BCV48	BCV48
BCV49	BCV49
BCV61/A/B/C	BCV61
BCV62/A/B/C	BCV62
BCW29	BCW29
BCW29LT1	BCW29
BCW30	BCW30
BCW30LT1	BCW30
BCW31	BCW31
BCW32	BCW32
BCW33	BCW33
BCW33LT1	BCW33
BCW60A	BCW60B
BCW60A...FN	BCW60B
BCW60ALT1	BCW60B
BCW60B	BCW60B
BCW60BLT1	BCW60B
BCW60C	BCW60C
BCW60D	BCW60D
BCW60DLT1	BCW60D
BCW61A...FN	BCW61B
BCW61B	BCW61B
BCW61BLT1	BCW61B
BCW61C	BCW61C
BCW61CLT1	BCW61C
BCW61DLT1	BCW61D

COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
BCW65B	BSR13
BCW67A...C	BSR15
BCW68F	BSR15
BCW68F...H	BSR16
BCW68G	BSR15
BCW69	BCW69
BCW69LT1	BCW69
BCW70	BCW70
BCW70LT1	BCW70
BCW71	BCW71
BCW72	BCW72
BCW72LT1	BCW72
BCX17	BCX17
BCX17LT1	BCX17
BCX18LT1	BCX18
BCX19	BCX19
BCX19LT1	BCX19
BCX20	BCX19
BCX20LT1	BCX19
BCX51/10/16	BCX51
BCX52/10/16	BCX52
BCX53	BCX53
BCX53/10/16	BCX53
BCX54/10/16	BCX54
BCX55/10/16	BCX55
BCX56	BCX56
BCX56/10/16	BCX56
BCX68/10..25	BC868-25
BCX69/10..25	BC869
BCX70G...K	BCX70G
BCX70GLT1	BCX70G
BCX70H	BCX70H
BCX70J	BCX70J
BCX70JLT1	BCX70J
BCX70K	BCX70K
BCX70KLT1	BCX70K
BCX71G	BCX71G
BCX71G...K	BCX71G
BCX71H	BCX71H
BCX71J	BCX71J

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COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
BDB01C	BC639
BDB02C	BC640
BF199	BF199
BF240	BF240
BF393	MPSA44
BF420	BF420
BF421	BF421
BF422	BF422
BF423	BF423
BF622	BF622
BF623	BF623
BF720	BF720
BF720T1	BF720
BF721	BF723
BF721T1	BF723
BF722	BF722
BF723	BF723
BF840	BF840
BF841	BF840
BF844	MPSA44
BF959	BF240
BFN16	BST40
BFN17	BST15
BFN18	BST39
BFN19	BST16
BFN20	BF620
BFN21	BF621
BFN22	BF822
BFN23	BF823
BFN39	PZTA92
BSP16T1	BSP16
BSP19AT1	BSP19
BSP50...52	BSP50
BSP52T1	BSP52
BSP60...62	BSP60
BSP62T1	BSP62
BSR14	BSR14
BSS63	BSS63
BSS63LT1	BSS63
BSS64	BSS64

COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
BSS79	BSR14
BSS80	BSR15
BSS81	BSR13
BSS82	BSR16
BSV52LT1	BSS64
BSV52LT1	BSV52
DTA114EE	PDTA114EE
DTA114EKA	PDTA114EK
DTA114ESA	PDTA114ES
DTA114EUA	PDTA114EU
DTA114TKA	PDTA114TK
DTA114TSA	PDTA114TS
DTA114TUA	PDTA114TU
DTA123JE	PDTA123JE
DTA124ECA	PDTA124ET
DTA124EE	PDTA124EE
DTA124EKA	PDTA124EK
DTA124ESA	PDTA124ES
DTA124EUA	PDTA124EU
DTA124XE	PDTA124XE
DTA143ECA	PDTA143ET
DTA143EE	PDTA143EE
DTA143EE	PDTA143EE
DTA143EKA	PDTA143EK
DTA143ESA	PDTA143ES
DTA143EUA	PDTA143EU
DTA143ZKA	PDTA143ZK
DTA144EE	PDTA144EE
DTA144EKA	PDTA144EK
DTA144ESA	PDTA144ES
DTA144EUA	PDTA144EU
DTA144WUA	PDTA144WU
DTC114ECA	PDTC114ET
DTC114EE	PDTC114EE
DTC114EKA	PDTC114EK
DTC114ESA	PDTC114ES
DTC114EUA	PDTC114EU
DTC114TCA	PDTC114TT
DTC114TE	PDTC114TE
DTC114TE	PDTC114TE

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COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
DTC114TKA	PDTC114TK
DTC114TSA	PDTC114TS
DTC114TUA	PDTC114TU
DTC114YE	PDTC114YE
DTC114YE	PDTC114YE
DTC123JE	PDTC123JE
DTC124ECA	PDTC124ET
DTC124EE	PDTC124EE
DTC124EKA	PDTC124EK
DTC124ESA	PDTC124ES
DTC124EUA	PDTC124EU
DTC124XE	PDTC124XE
DTC143EE	PDTC143EE
DTC143EKA	PDTC143EK
DTC143ESA	PDTC143ES
DTC143EUA	PDTC143EU
DTC143XE	PDTC143XE
DTC143ZCA	PDTC143ZT
DTC143ZKA	PDTC143ZK
DTC144EE	PDTC144EE
DTC144EKA	PDTC144EK
DTC144ESA	PDTC144ES
DTC144EUA	PDTC144EU
DTC144WKA	PDTC144WK
DTC144WUA	PDTC144WU
IMZ2A	BC847BPN
MBT3904DW1T1	PUMX1
MBT3906DW1T1	PUMT1
MBT3946DW1T1	PUMZ1
MMBT2222ALT1	PMBT2222A
MMBT2222AWT1	PMST2222A
MMBT2222LT1	PMBT2222
MMBT2369ALT1	PMBT2369
MMBT2369LT1	PMBT2369
MMBT2484LT1	BC850B
MMBT2907ALT1	PMBT2907A
MMBT2907AWT1	PMST2907A
MMBT2907LT1	PMBT2907
MMBT3904LT1	PMBT3904
MMBT3904WT1	PMST3904

COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
MMBT3906LT1	PMBT3906
MMBT3906WT1	PMST3906
MMBT4401LT1	PMBT4401
MMBT4403LT1	PMBT4403
MMBT5087LT1	BC860B
MMBT5088LT1	PMBT5088
MMBT5089LT1	PMBT5088
MMBT5401LT1	PMBT5401
MMBT5550LT1	PMBT5550
MMBT5551LT1	PMBT5551
MMBT6427LT1	PMBTA14
MMBT6428LT1	PMBT6428
MMBT6429LT1	PMBT6429
MMBTA05LT1	PMBTA06
MMBTA06LT1	PMBTA06
MMBTA13LT1	PMBTA13
MMBTA14LT1	PMBTA14
MMBTA42LT1	PMBTA42
MMBTA43LT1	PMBTA42
MMBTA55LT1	PMBTA56
MMBTA56LT1	PMBTA56
MMBTA63LT1	PMBTA64
MMBTA64LT1	PMBTA64
MMBTA92LT1	PMBTA92
MMBTA93LT1	PMBTA92
MMST4126	2PB709AQ
MMST5086	2PB709AQ
MMST5087	2PB709AS
MMST8098	2PD601AQ
MMUN2111LT1	PDTA114ET
MMUN2112LT1	PDTA124ET
MMUN2113LT1	PDTA144ET
MMUN2115LT1	PDTA114TT
MMUN2131LT1	PDTA123ET
MMUN2132LT1	PDTA143ET
MMUN2133LT1	PDTA143ZT
MMUN2211LT1	PDTC114ET
MMUN2212LT1	PDTC124ET
MMUN2213LT1	PDTC144ET
MMUN2214LT1	PDTC114YT

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COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
MMUN2215LT1	PDTC114TT
MMUN2216LT1	PDTC143TT
MMUN2231LT1	PDTC123ET
MMUN2232LT1	PDTC143ET
MMUN2233LT1	PDTC143ZT
MPS2222	PH2222A
MPS2222A	PH2222A
MPS2369	PH2369
MPS2369A	PH2369
MPS2907	PH2907A
MPS2907A	PH2907A
MPS3563	PH2369
MPS3646	BF370
MPS3904	MPS3904
MPS3906	MPS3906
MPS4124	2N3904
MPS4126	2N3904
MPS6531	PH2222A
MPS6534	BC327-16
MPS6601	BC368
MPS6602	BC635-16
MPS6651	BC369
MPS6652	BC636-10
MPS6717	BC639
MPS8598	MPSA56
MPS8599	MPSA56
MPS918	PH2369
MPSA05	MPSA06
MPSA06	MPSA06
MPSA06	MPSA06
MPSA13	MPSA14
MPSA13	MPSA14
MPSA14	MPSA14
MPSA17	JC501Q
MPSA18	BC550C
MPSA27	MPSA27
MPSA28	MPSA27
MPSA28	MPSA27
MPSA29	MPSA27
MPSA29	MPSA27

COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
MPSA42	MPSA42
MPSA43	MPSA43
MPSA44	MPSA44
MPSA55	MPSA56
MPSA56	MPSA56
MPSA56	MPSA56
MPSA62	MPSA64
MPSA63	MPSA64
MPSA63	MPSA64
MPSA64	MPSA64
MPSA64	MPSA64
MPSA64	MPSA64
MPSA70	MPS3906
MPSA70	MPS3906
MPSA75	MPSA64
MPSA92	MPSA92
MPSA93	MPSA92
MPSH81	BF324
MPSL51	2N5401
MPSW01	BC635-16
MPSW01A	BC635-16
MPSW05	MPSA06
MPSW06	MPSA06
MPSW13	MPSA14
MPSW14	MPSA14
MPSW42	MPSA42
MPSW51	BC636-10
MPSW51A	BC636-10
MPSW55	MPSA56
MPSW56	MPSA56
MSB709-RT1	2PB709AR
MSB710-RT1	2PB710AR
MSD1328-RT1	2PD602AS
MSD601-RT1	2PD601AR
MSD601-ST1	2PD601AS
MSD602-RT1	2PD602AR
MUN2111T1	PDTA114EK
MUN2112T1	PDTA124EK
MUN2113T1	PDTA144EK
MUN2115T1	PDTA114TK
MUN2132T1	PDTA143EK

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COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
MUN2133T1	PDTA143ZK
MUN2211T1	PDTC114EK
MUN2212T1	PDTC124EK
MUN2213T1	PDTC144EK
MUN2215T1	PDTC114TK
MUN2232T1	PDTC143EK
MUN2233T1	PDTC143ZK
MUN5111T1	PDTA114EU
MUN5112T1	PDTA124EU
MUN5113T1	PDTA144EU
MUN5115DW1T1	PUMB4
MUN5115T1	PDTA114TU
MUN5132T1	PDTA143EU
MUN5211DW1T1	PUMH11
MUN5211T1	PDTC114EU
MUN5212DW1T1	PUMH1
MUN5212T1	PDTC124EU
MUN5213T1	PDTC144EU
MUN5215DW1T1	PUMH4
MUN5215T1	PDTC114TU
MUN5216DW1T1	PUMH7
MUN5232T1	PDTC143EU
MUN5311DW1T1	PUMD3
MUN5312DW1T1	PUMD2
MUN5314DW1T1	PUMD9
P2N2222A	PN2222A
P2N2907A	PN2907A
PN2222A	PN2222A
PN2907A	PN2907A
PN918	BF370
PZT2222	PZT2222A
PZT2222A	PZT2222A
PZT2222AT1	PZT2222A
PZT2907A	PZT2907A
PZT2907AT1	PZT2907A
PZT3904	PZT3904
PZT3906	PZT3906
PZT751T1	BSP31
PZTA13	PZTA14
PZTA14	PZTA14

COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
PZTA14T1	PZTA14
PZTA42	PZTA42
PZTA42T1	PZTA42
PZTA43	PZTA42
PZTA63	BSP62
PZTA64	BSP62
PZTA64T1	BSP62
PZTA92	PZTA92
PZTA92T1	PZTA92
PZTA93	PZTA92
RXT2222A	PXT2222A
RXT2907A	PXT2907A
RXT3904	PXT3904
RXT3906	PXT3906
RXTA14	PXTA14
RXTA28	BCV49
SMBT2222	PMBT2222
SMBT2222A	PMBT2222A
SMBT2907	PMBT2907
SMBT2907A	PMBT2907A
SMBT3904	PMBT3904
SMBT3906	PMBT3906
SMBT6428	PMBT6428
SMBT6429	PMBT6429
SMBTA05	PMBTA06
SMBTA06	PMBTA06
SMBTA13	PMBTA13
SMBTA14	PMBTA14
SMBTA42	PMBTA42
SMBTA43	PMBTA42
SMBTA55	PMBTA56
SMBTA56	PMBTA56
SMBTA63	PMBTA64
SMBTA64	PMBTA64
SMBTA92	PMBTA92
SMBTA93	PMBTA92
SST2222A	PMBT2222A
SST2907A	PMBT2907A
SST3904	PMBT3904
SST3906	PMBT3906



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COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
SST4401	PMBT4401
SST4403	PMBT4403
SST6427	PMBTA14
SST6838	BC847
SST6839	BC857
SST8245	PMBT2369
SSTA05	PMBTA06
SSTA06	PMBTA06
SSTA13	PMBTA13
SSTA14	PMBTA14
SSTA28	PMBTA14
SSTA56	PMBTA56
SSTTIS97	BC817-40
SXT2222A	PXT2222A
SXT2907A	PXT2907A
SXT3904	PXT3904
SXT3906	PXT3906
SXTA42	PXTA42
SXTA43	PXTA42
SXTA92	PXTA92
SXTA93	PXTA92

COMPETITOR TYPE NUMBER	PHILIPS-TYPE-No.
UMB4N	PUMB4
UMD2N	PUMD2
UMD3N	PUMD3
UMH11N	PUMH11
UMH1N	PUMH1
UMH3N	PUMH7
UMH4N	PUMH4
UMH7N	PUMH7
UMT1N	BC857BS
UMT2222A	PMST2222A
UMT2907A	PMST2907A
UMT2N	PUMT1
UMT3904	PMST3904
UMT3906	PMST3906
UMT4401	PMST4401
UMT4403	PMST4403
UMX1N	PUMX1
UMX2N	BC847BS
UMX3N	BC847BS
UMZ1N	BC847BPN
UMZ2N	BC847BPN