

# Replacement Part Cross Reference

When selecting replacement parts for your HP products, you may notice that many manuals list only an HP part number for the part, even though it appears that this part is manufactured by one of the large semiconductor manufacturers. Service personnel often ask why only HP part numbers are listed.

It is recommended that HP replacement parts be used to ensure that original performance of the product will be retained. While some parts used in HP instruments are identical to those that

can be purchased at a local electronics distributor, many times parts will be selected for certain characteristics, such as gain, bandwidth, capacitance, etc. There may also be slight mechanical differences, such as the shaping or length of leads. In some cases special quality checks are used to ensure that high reliability parts are used at the factory and at HP field offices.

Therefore, we suggest obtaining replacement parts from HP to maintain the quality that you have paid for in your instrument. There may be situa-

tions however where HP replacement parts are not in stock and substituting parts will allow you to return the product to service immediately. In these cases it may be worthwhile to see if a substitute part will work in the circuit. Perhaps an HP part could be ordered and installed at some later date.

To help you in these situations, here's a cross-reference of HP part numbers to JEDEC numbers for transistors and diodes.

## Manufacturers Code Number Cross Reference

Number	Manufacturer	Number	Manufacturer	Number	Manufacturer
00039	Nippon Electric Co.	02865	Alpha Industries Inc.	05695	Microwave Associates Inc.
00046	Unitrode Corp.	02883	Siliconix	05840	Delco Elek Div. of Genl. Motors Corp.
00746	ROHM Corporation	02910	Signetics Corp.	06002	R T C Division Cogeco
01250	GTE Sylvania Elek Components Group	02919	MSI Electronics Ind.	06023	Mullard Ltd.
01590	Plessey Semiconductors	03038	International Rectifier Semicon Div.	06078	International Rectifier Ltd.
01691	TRW Inc. Semiconductor Div.	03172	TRW Microwave	06121	Siemens AG
01698	Texas Instr. Inc. Semicond. Compt. Div.	03191	Solitron Devices Inc. (FETS, Diodes)	06338	SGS Ates
01921	RCA Corp., Solid State Div.	03285	Analog Devices Inc.	06344	Fujitsu Ltd.
01973	GE Co., Semiconductor Prod. Dept.	03287	General Semiconductor Industries	06354	Toshiba Corporation
01979	Lansdale Transistor & Elek Inc.	03334	Amperex Elec. Corp., Semicon. & MC Div.	06418	Hughes International Ltd.
01991	Transitron Electronic Corp.	03406	National Semiconductor Corp.	06563	Siemens Corp., Components Group
02037	Motorola Semiconductor Products	03447	Hughes Aircraft Co. Newp. Beach Div.	06592	SGS Ates (14)
02062	HP Div. 05 Microwave Semiconductor	03571	Lansdale XSTR Elek Co. Advance Line	06632	Semiconductor Technology Inc.
02086	Westinghouse Elec. Corp. Semicon. Dept.	03627	Solid State Devices Inc.	07050	Micro Power Systems
02158	Edal Industries Inc.	03714	Intersil Inc.	07221	Supertex Inc.
02237	Fairchild Semiconductor Div.	03776	Kertron Inc.	07766	La Radiotechnique Compelec
02526	Semicon. Inc.	03793	Silicon General Inc.	08852	Metelics Corp.
02569	Crystalonics Div., Teledyne	03811	Intel Corp.	09283	Semi Processes Inc.
02619	Solitron Devices Inc. (Diodes)	04161	KSW Electronics Inc.	09914	Unitrode Corp.
02634	Sprague Elect. Co., Semiconductor Div.	04200	Sprague Electronic Co.	10464	Thomson CSF Brazil
02664	Semtech. Corp.	04583	Bradley Semiconductor Corp.	10674	Diode Transistor Co.
02682	ITT Semiconductors Div. or ITT Corp.	05088	Varo Semiconductor Inc.	10760	Hybrid Die
02688	Microsemi Corporation	05131	Electronic Devices Inc.	10818	H-Ibrape Electronica
02713	General Instr. Corp., Semicon. Prod. GP	05176	TRW Capacitor Div.	10881	Thomson-CSF
02803	Codi Semiconductor	05644	Philco-Ford Corp. Sierra Elek Opn	10978	Frequency Sources
				11152	Composants Semicond. De Protection

HP PIN	Mfr.	Desc.	HP PIN	Mfr.	Desc.	HP PIN	Mfr.	Desc.		
0122-0002	01691	1N4813	0122-0070	02037	1N5456A	0122-0254	02037	1N5143A		
0122-0004	01691	1N4809	0122-0071	02037	MV2107	0122-0255	02037	1N5144		
0122-0005	01691	1N4810	0122-0072	02037	BB105B	0122-0256	02037	1N5144A		
0122-0008	02569	VA114	0122-0074	05695	MA45644	0122-0257	02037	1N5145		
0122-0014	01691	1N4810B	0122-0077	02037	MV2201	0122-0258	02037	1N5145A		
0122-0017	01691	1N4804	0122-0081	02037	MV1404	0122-0259	02037	1N5146		
0122-0018	01691	1N4801A	0122-0085	00039	1S2208(B)	0122-0260	02037	1N5146A		
0122-0019	01691	1N4803A	0122-0089	02037	MV109	0122-0261	02037	1N5147		
0122-0020	01691	1N4805A	0122-0090	02037	BB-105B	0122-0262	02037	1N5147A		
0122-0021	01691	1N4807A	0122-0158	10978	1N5146A(SEL)	0122-0263	02037	1N5148		
0122-0022	01691	1N4808A	0122-0159	10978	1N5148A(SEL)	0122-0264	02037	1N5148A		
0122-0023	01691	1N4809A	0122-0160	02865	6-6832-79	0122-0325	04161	KV1403		
0122-0024	01691	1N4810A	0122-0161	03334	BB405B	0122-0331	02037	MV1403		
0122-0025	01691	1N4811A	0122-0162	03334	BB809	0122-0332	02037	MV309		
0122-0026	01691	1N4812A	0122-0163	02037	MVAM125	0837-0196	01973	V430MA3A		
0122-0027	01691	1N4813A	0122-0164	10978	1N5148A(SEL)	0837-0241	03287	SA15A		
0122-0028	01691	1N4814A	0122-0165	10978	KV31S1	0837-0243	01973	V47MA2B		
0122-0029	01691	1N4815A	0122-0167	06121	BB409	0837-0255	03287	SA40CA		
0122-0031	02569	VA126	0122-0245	02037	1N5139	0837-0256	03287	1.5KE100C		
0122-0034	01691	1N4814B	0122-0246	02037	1N5139A	0837-0257	03287	1.5KE200C		
0122-0044	02919	MV840C	0122-0247	02037	1N5140	0837-0258	03287	P6KE47CA		
0122-0056	02037	MV2101	0122-0248	02037	1N5140A	0837-0261	01973	V275LA20A		
0122-0060	02037	MV2308	0122-0249	02037	1N5141	0837-0264	03287	1N6045A		
0122-0062	02037	1N5468A	0122-0250	02037	1N5141A	0837-0267	03287	1.5KE82		
0122-0064	02037	MV1868D	0122-0251	02037	1N5142	0837-0268	01973	V300LA4		
0122-0066	02037	MV1401	0122-0252	02037	1N5142A	0837-0270	02713	1N6281A		
			0122-0253	02037	1N5143	0837-0271	03287	SA15CA		
								0837-0273	01973	V120MA1A
								0837-0276	03287	1.5KE400A
								0837-0277	03287	1.5KE300A
								0837-0278	01973	V392A1
								0837-0279	03287	MPTE-10C
								0837-0281	03287	SA7.5C
								0837-0283	03287	1.5KE47CA
								0837-0285	01973	V56MA2B
								0837-0289	03287	1.5KE47
								0837-0290	10464	BZM50-56
								0837-0292	01973	V120ZA6
								0837-0294	02037	PGKE82
								0837-0299	03287	GMP-5B
								0837-0300	03287	P6KE10A
								0837-0301	03287	P6KE15A
								0837-0302	03287	P6KE20
								0837-0303	03287	P6KE39A
								0837-0304	11152	GZ35018A
								0837-0305	11152	GZ35108A
								1820-0225	03406	LM103-2.4
								1820-0240	01921	CA3026
								1820-0352	01921	CA3018
								1820-1804	02037	MPW6842
								1821-0001	01921	CA3046
								1821-0002	01921	CA3045
								1821-0006	02237	SH6501PC
								1850-0003	03334	2N1516
								1850-0018	01921	2N384





















JDEC	Mfr	HP P/N							
T1P140	01698	1854-0663	TN-4030-J25Z	03406	1853-0551	V39ZA1	01973	0837-0278	
TG-10	05088	1901-0995	TND908	02634	1906-0275	V430MA3A	01973	0837-0196	
THD4150	02634	1901-1124	TPQ6002	02634	1858-0083	V47MA2B	01973	0837-0243	
TID130	01698	1906-0202	U1897E	03406	1855-0436	V56MA2B	01973	0837-0285	
TIP 115	01698	1853-0377	U310	02883	1855-0530	VA114	02569	0122-0008	
TIP 141	01698	1854-0763	U310 (SELECTED)	02037	1855-0235	VA126	02569	0122-0031	
TIP-122	01698	1854-0828	U311	02883	1855-0519	VB10X	05088	1901-1105	
TIP-126	01698	1853-0424	U440	02883	1855-0573	VCR2N	02883	1855-0265	
TIP-127	01698	1853-0468	UC310	02037	1855-0552	VCR3P	02883	1855-0205	
TIP-34	01698	1853-0350	UDN2580A	02634	1858-0085	VE48	05088	1906-0006	
TIP-35A	01698	1854-0593	UES 2402	00046	1906-0262	VG-2X	05088	1901-0845	
TIP-41	01698	1854-0625	UES-1106	09914	1901-1106	VH148	05088	1906-0052	
TIP100	02037	1854-0840	UES1105	09914	1901-1110	VHE2402A	05088	1906-0270	
TIP102	01698	1854-0970	UES1303	09914	1901-1111	VJ148X	05088	1906-0079	
TIP105	02037	1853-0463	UES1305	09914	1901-1108	VJ848TT	05088	1906-0085	
TIP106	01698	1853-0454	UES1306	09914	1901-1109	VK248	05088	1906-0205	
TIP107	02037	1853-0490	UES2605	00046	1906-0277	VKP 248	05088	1906-0264	
TIP110	01698	1854-0670	UES601R	00046	1901-0953	VL447	05088	1906-0216	
TIP112	02037	1854-1023	UES803	00046	1901-1127	VM28X	05088	1906-0289	
TIP140	02037	1854-0880	UES803R	00046	1901-0961	VMP-1	02883	1855-0263	
TIP142	02037	1854-0985	UES804	00046	1901-0904	VN0104N3	07221	1855-0546	
TIP145	02037	1853-0498	ULN-2003A	02634	1858-0047	VN0300L	02883	1855-0555	
TIP32C	03406	1853-0537	ULN-2003A (SEL)	02634	1858-0099	VN0300M	02883	1855-0525	
TIP36	01698	1853-0453	ULN-2004A	02634	1858-0061	VN10KE	02883	1855-0545	
TIP41A	01698	1854-0456	ULN-2023A	02634	1858-0097	VN10KM	02883	1855-0423	
TIP41C	02037	1854-0799	ULN-2033A	02634	1858-0067	VN10LE	02883	1855-0560	
TIP42	02037	1854-0967	ULN-2803A	02634	1858-0069	VN2222L	02883	1855-0556	
TIP42A	01698	1853-0356	ULN-2804A	02634	1858-0082	VN66AF	02883	1855-0275	
TIP42C	01698	1853-0234	ULN-2804A	02634	1858-0084	VPO300L	02883	1855-0550	
TIP47	02037	1854-0838	ULN-2805A	02634	1858-0073	VPO300M	02883	1855-0526	
TIP51	01698	1854-0806	ULN-2813A	02634	1858-0072	VS148	05088	1906-0240	
TIP642	01698	1854-0982	ULN-2815A-2	02634	1858-0065	VSK12	05088	1906-0263	
TIP647	01698	1853-0543	ULN2082A	02634	1858-0037	VSK231	05088	1906-0278	
TIP75B	01698	1854-0803	USD 745C	00046	1906-0265	VSK3040T	05088	1906-0238	
TIP753A	01698	1854-0960	V120MA1A	01973	0837-0273	VSK540	05088	1901-0976	
TIR101B	01698	1906-0213	V120ZA6	01973	0837-0292	VSK71	05088	1901-0960	
TIR201B	01698	1906-0214	V275LA20A	01973	0837-0261	VX30	00046	1901-0984	
TIS-149	01698	1853-0464	V300LA4	01973	0837-0268	W02M	02713	1906-0256	
			V334X	05088	1901-0848	X45H281	01973	1853-0363	
			V336X	05088	1901-0882	ZSK533	00039	1855-0571	