

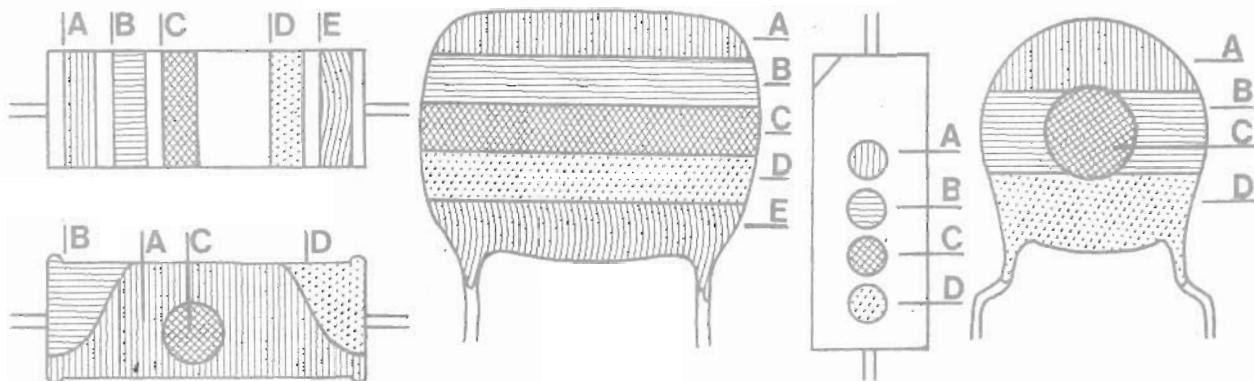
# **Electronic Reference Data**

**PRESENTED FREE WITH ELECTRONICS TODAY  
NOVEMBER 1975**

# Common Abbreviations

<b>A</b>	Ampere or Anode	<b>H</b>	Henry	<b>P<sub>tot</sub></b>	Maximum Total Power Dissipation
<b>AC</b>	Alternating Current	<b>HF</b>	High Frequency	<b>PU</b>	Pickup
<b>Ae</b>	Aerial	<b>h<sub>fe</sub></b>	Transistor small signal current gain	<b>PUJT</b>	Programmable Unijunction Transistor
<b>AF</b>	Audio Frequency	<b>h<sub>FE</sub></b>	Transistor large signal current gain	<b>Q</b>	Transistor 'Goodness' factor of tuned circuit
<b>AFC</b>	Automatic Frequency Control	<b>HT</b>	High Tension	<b>R</b>	Resistance
<b>AGC</b>	Automatic Gain Control	<b>Hz</b>	Hertz	<b>RAM</b>	Random Access Memory
<b>AM</b>	Amplitude Modulation	<b>I</b>	Current	<b>RF</b>	Radio Frequency
<b>ATU</b>	Aerial Tuning Unit	<b>I<sub>b</sub></b>	Base Current of Transistor	<b>RFC</b>	Radio Frequency Choke
<b>AVC</b>	Automatic Volume Control	<b>I<sub>c</sub></b>	Collector Current of Transistor	<b>R<sub>L</sub></b>	Load Resistor
<b>b</b>	Base of Transistor	<b>IC</b>	Integrated Circuit	<b>r.m.s.</b>	Root-mean-square
<b>B&amp;S</b>	Wire Gauge (U.S.)	<b>I<sub>cbo</sub></b>	Collector-base current with emitter open circuit	<b>RTL</b>	Resistor Transistor Logic
<b>BCD</b>	Binary Coded Decimal	<b>IF</b>	Intermediate Frequency	<b>RV</b>	Variable Resistor
<b>C</b>	Capacitor, Cathode, Centigrade.	<b>I<sub>gt</sub></b>	Gate Current to Trigger Thyristor	<b>Rx</b>	Receiver
<b>c</b>	Collector	<b>IEL</b>	Integrated Injection Logic (also I <sub>2L</sub> )	<b>SCC</b>	Single Cotton Covered
<b>CCTV</b>	Closed Circuit Television	<b>i/p</b>	Input	<b>SCR</b>	Silicon Controlled Rectifier
<b>c.g.s.</b>	Centimetre-gramme-second	<b>i.p.s.</b>	Inches per Second	<b>SPDT</b>	Single-pole double-throw
<b>Ck</b>	Clock	<b>K</b>	Kilo (10 <sup>3</sup> ) or Cathode	<b>SPST</b>	Single-pole single-throw
<b>CMOS</b>	Complementary Metal Oxide Semiconductor	<b>L</b>	Inductance	<b>SSC</b>	Single Silk Covered
<b>CW</b>	Continuous Wave	<b>LED</b>	Light Emitting Diode	<b>SSI</b>	Small Scale Integration
<b>D</b>	Diode	<b>LF</b>	Low Frequency	<b>SWG</b>	Standard Wire Gauge
<b>d</b>	Drain (of FET)	<b>Lin</b>	Linear	<b>TRF</b>	Timed Radio Frequency
<b>dB</b>	Decibel	<b>Log</b>	Logarithmic	<b>TTL</b>	Transistor Transistor Logic
<b>DC</b>	Direct Current	<b>LS</b>	Loudspeaker	<b>TVI</b>	TV Interference
<b>DCC</b>	Double Cotton Covered	<b>LSI</b>	Large Scale Integration	<b>Tx</b>	Transmitter
<b>DF</b>	Direction Finding	<b>M</b>	Mega (10 <sup>6</sup> )	<b>uF</b>	accepted alternative to $\mu\text{F}$
<b>DIL</b>	Dual-in-line	<b>m</b>	Milli (10 <sup>-3</sup> )	<b>UHF</b>	Ultra High Frequency
<b>DIN</b>	Audio Standard of German Standards Institute	<b>mA</b>	Milliamp	<b>UJT</b>	Unijunction Transistor
<b>DPDT</b>	Double-pole double-throw	<b>mH</b>	MilliHenry	<b>V</b>	Volts
<b>DPST</b>	Double-pole single-throw	<b>MHz</b>	Megahertz	<b>VA</b>	Collector-emitter voltage with base open-circuit
<b>DSC</b>	Double Silk Covered	<b>mmF</b>	Alternative to Picofarad	<b>V</b>	Volts
<b>DTL</b>	Diode Transistor Logic	<b>MOSFET</b>	Metal Oxide Semiconductor FET	<b>V<sub>CEO</sub></b>	Collector-emitter with base open - circuit
<b>DX</b>	Long Distance Reception	<b>MSI</b>	Medium Scale Integration	<b>VA</b>	Volt Amps
<b>E</b>	Sometimes used for Voltage	<b>MOST</b>	Metal Oxide Semiconductor Transistor	<b>VCO</b>	Voltage Controlled Oscillator
<b>e</b>	Emitter	<b>MPX</b>	Multiplex	<b>V<sub>eb</sub></b>	Base-emitter reverse voltage
<b>EHT</b>	Extra High Voltage	<b>mV</b>	Millivolt	<b>V<sub>f</sub></b>	Forward Voltage of Diode
<b>EMF</b>	Electromotive Force	<b>mW</b>	Milliwatt	<b>V<sub>gs</sub></b>	Gate - source Voltage of FET
<b>ERP</b>	Effective Radiated Power	<b>n</b>	Nano (10 <sup>-9</sup> )	<b>V<sub>gt</sub></b>	Gate Voltage necessary to trigger thyristor
<b>F</b>	Farad or Fahrenheit	<b>Ni-Cad</b>	Nickel Cadmium	<b>VHF</b>	Very High Frequency
<b>f</b>	Frequency	<b>O/c</b>	Open Circuit	<b>VLF</b>	Very Low Frequency
<b>FET</b>	Field Effect Transistor	<b>o/p</b>	Output	<b>VR</b>	Variable Resistor
<b>f<sub>fb</sub></b>	Frequency at which current gain in common-base transistor mode is reduced by 3dB <sup>-1</sup> .	<b>Op.Amp</b>	Operational Amplifier	<b>W</b>	Watts
<b>FM</b>	Frequency Modulation	<b>p</b>	Pico (10 <sup>-12</sup> )	<b>X</b>	Reactance
<b>f<sub>T</sub></b>	Frequency at which current gain is unity in common-emitter mode	<b>PA</b>	Public Address	<b>Xtal</b>	Crystal
<b>G</b>	Giga (10 <sup>9</sup> )	<b>PCB</b>	Printed Circuit Board	<b>Z</b>	Impedance
<b>g</b>	Grid	<b>p.d.</b>	Potential Difference	<b>ZD</b>	Zener Diode
		<b>PIV</b>	Peak Inverse Working Voltage		
		<b>PLL</b>	Phase Locked Loop		

# Component Colour Codes



COLOUR	BAND A		BAND B	BAND C Multiplier	BAND D				BAND E			
					resistors	capacitors	resistors	capacitors up to 10pF	capacitors over 10pF	tantalum working voltage	resistors	capacitors
BLACK	—	0	1	1	—	2pF	—	± 20%	10V	—	—	—
BROWN	1	1	10	10	± 1%	0.1pF	—	± 1%	—	—	—	—
RED	2	2	10 <sup>2</sup>	10 <sup>2</sup>	± 2%	—	—	± 2%	—	—	—	250V
ORANGE	3	3	10 <sup>3</sup>	10 <sup>3</sup>	—	—	—	± 2.5%	—	—	—	—
YELLOW	4	4	10 <sup>4</sup>	10 <sup>4</sup>	—	—	—	—	6.3V	—	400V	—
GREEN	5	5	10 <sup>5</sup>	—	—	0.5pF	—	± 5%	16V	—	—	—
BLUE	6	6	10 <sup>6</sup>	—	—	—	—	—	20V	—	630V	—
VIOLET	7	7	10 <sup>7</sup>	—	—	—	—	—	—	—	—	—
GREY	8	8	10 <sup>8</sup>	0.01	—	0.25pF	—	—	25V	—	—	—
WHITE	9	9	10 <sup>9</sup>	0.1	—	—	—	—	2V	—	—	—
SILVER	—	—	0.01	—	± 10%	—	—	—	—	—	—	—
GOLD	—	—	0.1	—	± 5%	—	—	—	—	—	—	—
PINK	—	—	—	—	—	—	—	—	35V	High Stability	—	—

NOTE: Adjacent bands, if the same colour are not always separated.

## Preferred Values of Resistors

### E12 Series (10%)

1.0    1.2    1.5    1.8    2.2    2.7    3.3    3.9    4.7  
5.6    6.8    8.2 and their decades

### E24 Series (5%)

1.0    1.1    1.2    1.3    1.5    1.6    1.8    2.0    2.2  
2.4    2.7    3.0    3.3    3.6    3.9    4.3    4.7    5.1  
5.6    6.2    6.8    7.5    8.2    9.1 and their decades

# Decibel Table

The voltage and current figures are given on the assumption that there is no change in impedance.

Voltage or current ratio	Power ratio		Voltage or current ratio	Power ratio
1.000	1.000	0	1.000	1.000
0.989	0.977	0.1	1.012	1.023
0.977	0.955	0.2	1.023	1.047
0.966	0.933	0.3	1.035	1.072
0.955	0.912	0.4	1.047	1.096
0.944	0.891	0.5	1.059	1.122
0.933	0.871	0.6	1.072	1.148
0.912	0.832	0.8	1.096	1.202
0.891	0.794	1.0	1.122	1.259
0.841	0.708	1.5	1.189	1.413
0.794	0.631	2.0	1.259	1.585
0.750	0.562	2.5	1.334	1.778
0.708	0.501	3.0	1.413	1.995
0.668	0.447	3.5	1.496	2.239
0.631	0.398	4.0	1.585	2.512
0.596	0.355	4.5	1.679	2.818
0.562	0.316	5.0	1.778	3.162
0.501	0.251	6.0	1.995	3.981
0.447	0.200	7.0	2.239	5.012
0.398	0.159	8.0	2.512	6.310
0.355	0.126	9.0	2.818	7.942
0.316	0.100	10	3.162	10.00
0.282	0.0794	11	3.55	12.6
0.251	0.0631	12	3.98	15.9
0.224	0.0501	13	4.47	20.0
0.200	0.0398	14	5.01	25.1
0.178	0.0316	15	5.62	31.6
0.159	0.0251	16	6.31	39.8
0.126	0.0159	18	7.94	63.1
1.100	0.0100	20	10.00	100.0
3.16x10 <sup>-2</sup>	10 <sup>-3</sup>	30	3.16x10 <sup>0</sup>	10 <sup>3</sup>
10 <sup>-2</sup>	10 <sup>-4</sup>	40	10 <sup>2</sup>	10 <sup>4</sup>
3.16x10 <sup>-3</sup>	10 <sup>-5</sup>	50	3.16x10 <sup>2</sup>	10 <sup>5</sup>
10 <sup>-3</sup>	10 <sup>-6</sup>	60	10 <sup>3</sup>	10 <sup>6</sup>
3.16x10 <sup>-4</sup>	10 <sup>-7</sup>	70	3.16x10 <sup>3</sup>	10 <sup>7</sup>
10 <sup>-4</sup>	10 <sup>-8</sup>	80	10 <sup>4</sup>	10 <sup>8</sup>
3.16x10 <sup>-5</sup>	10 <sup>-9</sup>	90	3.16x10 <sup>4</sup>	10 <sup>9</sup>
10 <sup>-5</sup>	10 <sup>-10</sup>	100	10 <sup>5</sup>	10 <sup>10</sup>
3.16x10 <sup>-6</sup>	10 <sup>-11</sup>	110	3.16x10 <sup>5</sup>	10 <sup>11</sup>
10 <sup>-6</sup>	10 <sup>-12</sup>	120	10 <sup>6</sup>	10 <sup>12</sup>

## Dielectric Constants and Power Factor

	Dielectric Constant at 50Hz	Power Factor at 50Hz	Power Factor at 1MHz	Power Factor at 100MHz
Air (normal pressure)	1	—	—	—
Glass, Crown	6.2	—	1	—
Glass, Pyrex	4.5	—	0.5	—
Mica	2.5 – 8.0	0.2	0.2 – 6	—
Paper	2 – 2.6	—	—	—
PTFE	2	—	—	0.001
Polystyrene	2.5	0.02	0.02	0.03
Polythene	2.25	0.03	0.02	0.03
PVC	2.9 – 3.2	1.2	1.6	0.8
Vinyl resins	4	—	4.2	—

# Mail Order Companies with catalogues

**ARROW ELECTRONICS LTD.**  
7 Coptfold Road,  
Brentwood,  
Essex, CM14 4BN

**B.H. COMPONENT FACTORS LTD.**  
59 North Street,  
Leighton Buzzard,  
Beds. LU7 7EG

**BI-PAK.**  
P.O. Box 6,  
Ware,  
Herts.

**BI-PRE-PAK LTD.**  
222-224 West Road,  
Westcliff-on-Sea,  
Essex SS0 9DF

**DORAM ELECTRONICS LTD.**  
P.O. Box TR8,  
Wellington Road Industrial Estate,  
Wellington Bridge,  
Leeds, LS12 2UF

**ELECTROVALUE LTD.**  
28 St Judes Road,  
Englefield Green,  
Egham,  
Surrey TW20 0HB

**HENRY'S RADIO LTD.**  
303 Edgware Road,  
London W2 1BW

**HOME RADIO (COMPONENTS) LTD.**  
240 London Road,  
Mitcham,  
Surrey CR4 3HD

**MALPIN ELECTRONIC SUPPLIES.**  
P.O. Box 3,  
Rayleigh,  
Essex SS6 8LR

**A. MARSHALL (LONDON) LTD.**  
42 Cricklewood Broadway,  
London NW2 3ET

**S.C.S. COMPONENTS.**  
Northfield Industrial Estate,  
Beresford Avenue,  
Wembley,  
Middlesex HA0 1YY

## Wire Gauge Comparisons

Metric mm. (preferred sizes)	2.00	1.80	1.60	1.40	1.25	1.00	0.90	0.71	0.56	0.45	0.355	0.315	0.280	0.250	0.224	0.200	0.160	0.125	0.100	0.080
S.W.G. (nearest)	14	15	16	17	18	19	20	22	24	26	28	30	32	33	34	36	38	40	42	44
B&S (nearest)	12	13	14	15	16	18	19	21	23	25	27	28	29	30	31	32	34	36	38	40

# Formulae

## Capacitance

$$C = \frac{0.0885 K A}{d}$$

C in pF

K is dielectric constant (air = 1)

A is area of plates in cm<sup>2</sup>

d is thickness of dielectric

## Frequency-Wavelength

$$f = \frac{300,000}{\lambda} \text{ kHz}$$

$$\lambda = \frac{300,000}{f} \text{ metres}$$

f is frequency in kHz

$\lambda$  is wavelength in metres

## Ohms Law

$$I = \frac{V}{R} \text{ or } V = IR \text{ or } R = \frac{V}{I}$$

I is current in amps.

V is volts

R is resistance in ohms.

## Power

$$W = VI = I^2 R$$

W is watts

## Reactance

$$X_L = 2\pi f L$$

$X_L$  is reactance of inductor.

f is specific frequency.

L is inductance in Henries.

$$X_C = \frac{1}{2\pi f C}$$

$X_C$  is reactance of capacitor.

C is capacitance in Farads.

## Resonance

$$f = \frac{10^6}{2\pi\sqrt{LC}}$$

L is inductance in microhenries.

C is capacitance in picofarads.

f is frequency in kilohertz.

## Time Constant

For a combination of capacitance and resistance in series, the time constant (defined as the time necessary for voltage to reach 63% of final value) is:

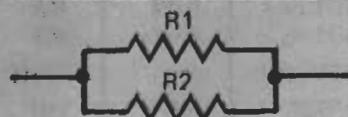
$$t = CR$$

t is time in seconds.

C is capacitance in Farads.

R is resistance in ohms.

# Resistors in Parallel



R2	10	12	15	18	22	27	33	39	47	56	68	82	100
10	5.00	5.45	6.00	6.43	6.88	7.30	7.67	7.96	8.25	8.48	8.72	8.91	9.09
12	5.45	6.00	6.67	7.20	7.76	8.31	8.80	9.18	9.56	9.88	10.20	10.47	10.71
15	6.00	6.67	7.50	8.18	8.92	9.64	10.31	10.83	11.37	11.83	12.29	12.68	13.04
18	6.43	7.20	8.18	9.00	9.90	10.80	11.65	12.32	13.02	13.62	14.23	14.76	15.25
22	6.88	7.76	8.92	9.90	11.00	12.12	13.20	14.07	14.99	15.79	16.62	17.35	18.03
27	7.30	8.31	9.64	10.80	12.12	13.50	14.85	15.95	17.15	18.22	19.33	20.31	21.26
33	7.67	8.80	10.31	11.65	13.20	14.85	16.50	17.88	19.39	20.76	22.22	23.53	24.81
39	7.96	9.18	10.83	12.32	14.07	15.95	17.88	19.50	21.31	22.99	24.79	26.43	28.06
47	8.25	9.56	11.37	13.02	14.99	17.15	19.39	21.31	23.50	25.55	27.79	29.88	31.97
56	8.48	9.88	11.83	13.62	15.79	18.22	20.76	22.99	25.55	28.00	30.71	33.28	35.90
68	8.72	10.20	12.29	14.23	16.62	19.33	22.22	24.79	27.79	30.71	34.00	37.17	40.48
82	8.91	10.47	12.68	14.76	17.35	20.31	23.53	26.43	29.88	33.28	37.17	41.00	45.05
100	9.09	10.71	13.04	15.25	18.03	21.26	24.81	28.06	31.97	35.90	40.48	45.05	50.00
120	9.23	10.91	13.33	15.65	18.59	22.04	25.88	29.43	33.77	38.18	43.40	48.71	54.55
150	9.38	11.11	13.64	16.07	19.19	22.88	27.05	30.95	35.79	40.78	46.79	53.02	60.00
180	9.47	11.25	13.85	16.36	19.60	23.48	27.89	32.05	37.27	42.71	49.35	56.34	64.29
220	9.57	11.38	14.04	16.64	20.00	24.05	28.70	33.13	38.73	44.64	51.94	59.74	68.75
270	9.64	11.49	14.21	16.88	20.34	24.55	29.41	34.08	40.03	46.38	54.32	62.90	72.97
330	9.71	11.58	14.35	17.07	20.63	24.96	30.00	34.88	41.14	47.88	56.38	65.68	76.74
390	9.75	11.64	14.44	17.21	20.83	25.25	30.43	35.45	41.95	48.97	57.90	67.75	79.59
470	9.79	11.70	14.54	17.34	21.02	25.53	30.83	36.01	42.73	50.04	59.41	69.82	82.46
560	9.82	11.75	14.61	17.44	21.17	25.76	31.16	36.46	43.36	50.91	60.64	71.53	84.85
680	9.86	11.79	14.68	17.54	21.31	25.97	31.47	36.88	43.96	51.74	61.82	73.18	87.18
820	9.88	11.83	14.73	17.61	21.43	26.14	31.72	37.23	44.45	52.42	62.79	74.55	89.13
1000	9.90	11.86	14.78	17.68	21.53	26.29	31.95	37.54	44.89	53.03	63.67	75.79	90.91

# Popular Transistors

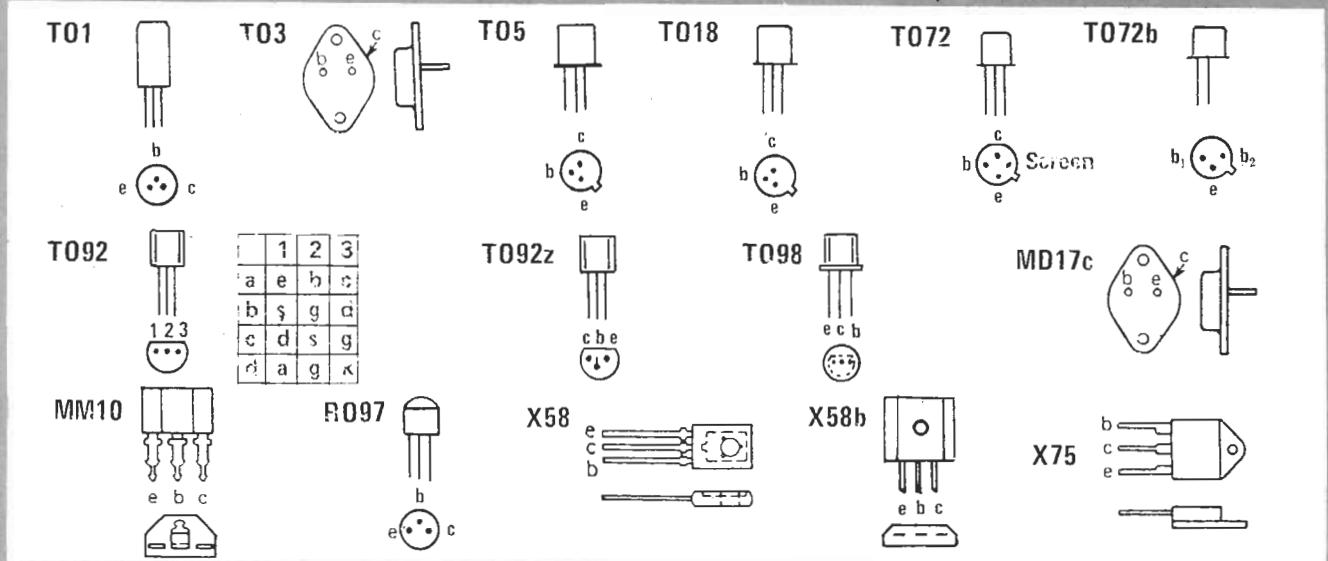
TYPE	PNP or NPN	P <sub>t</sub> max Power mW	GAIN HFE @ mA	f <sub>T</sub> (MHz)	V <sub>CEO</sub> (V)	OUTLINE	USUAL APPLICATION
2N2219	NPN	800	100 150	250	30	TO5	Medium power
2N706	NPN	300	50 10	200	20	TO18	G.P. Switching
2N2926G	NPN	200	470 2	120	18	TO98a	G.P. Audio
2N3702	PNP	200	60 50	100	25	TO92a	G.P.
2N3704	NPN	300	90 50	100	30	TO92	G.P.
2N3638	PNP	300	30 50	100	25	RO97	G.P.
2N3643	NPN	300	100 150	250	30	RO97	G.P.
AC127	NPN/G	200	25 500	1.5	32	TO1	
AC128	PNP/G	220	60 300	1.5	32	TO1	
AD161	NPN/G	4W	50 500	1	20	MD17c	Complementary Power Germanium
AD162	PNP/G	6W	50 500	1	20	MD17c	
AF239	PNP/G	60	50 2	800	15	TO72	UHF
BC107	NPN	300	125 2	150	45	TO18	G.P.
BC108	NPN	300	125 2	150	20	TO18	G.P.
BC109	NPN	300	240 2	300	20	TO18	Low Noise, High Gain
BC147	NPN	220	125 2	300	45	MM10	G.P.
BC148	NPN	220	125 2	300	20	MM10	G.P.
BC149	NPN	220	240 2	300	30	MM10	Low Noise, High Gain
BC157	PNP	220	125 2	300	45	MM10	G.P.
BC158	PNP	220	125 2	300	20	MM10	G.P.
BC159	PNP	200	240 2	200	20	MM10	Low Noise
BC177	PNP	300	125 2	300	45	TO18	G.P.
BC178	PNP	300	125 2	300	20	TO18	G.P.
BC179	PNP	300	240 2	200	20	TO18	G.P.
BC328	PNP	360	100 100	100	25	TO92zb	Low power Complementary pair
BC338	NPN	360	100 100	100	25	TO92zb	
BD131	NPN	11W	30 500	60	45	X58	High power Complementary pair
BD132	PNP	11W	30 500	60	45	X58	
BD139	NPN	8W	40 150	250	80	X58	High power Complementary pair
BD140	PNP	8W	40 150	75	80	X58	
BDY20	NPN	115W	20 4A	1	60	TO3	V. High power
BF180	NPN	150	50 2	675	25	TO72	UHF
BFR40	NPN	800	75 100	100	60	TO92	Complementary pair
BFR80	PNP	800	75 100	100	60	TO92	
BFX30	PNP	500	50 10	100	45	TO5	Medium power G.P.
BFX85	NPN	800	50 10	50	60	TO5	Medium power G.P.
BFX88	PNP	600	125 10	100	40	TO5	Medium power G.P.
BFY50	NPN	800	30 150	60	35	TO5	Medium power G.P.
BFY51	NPN	800	40 150	50	30	TO5	Medium power G.P.
2N3055	NPN	115W	20 4A	0.4	60	TO3	High power
MJ2955	PNP	115W	20 4A	0.4	60	TO3	High power
MJE3055	NPN	90W	20 4A	2	60	X58c	High power
MJE2955	PNP	90W	20 4A	2	60	X58c	High power
TIP31A	NPN	40W	20 1A	3	60	X75b	High power
TIP32A	PNP	40W	20 1A	3	60	X75b	High power
OC44	PNP/G	75	40 2	7.5	15	TO1	R.F. Low power
OC45	PNP/G	72	25 2	9	15	TO1	R.F. Low power
OC71	PNP/G	125	30 3	0.3	20	TO1	A.F. Low power
OC72	PNP/G	125	30 80	1	32	TO1	A.F. Low power
OC81	PNP/G	240	50 50	1	32	TO1	A.F. G.P.

P.U.T.'s	ANODE-CATHODE VOLTAGE (V)	VALLEY CURRENT		MAX PEAK - POINT CURRENT		OFF-SET VOLTAGE (V)	OUTLINE	
		Rg=1MHz ( $\mu$ A)	Rg=10kHz ( $\mu$ A)	Rg=1MHz ( $\mu$ A)	Rg=10kHz ( $\mu$ A)			
2N6027 (D13TI)	40	50	70	2	5	0.2	1.6	TO92d

UNIJUNCTION TRANSISTORS	INTERBASE VOLTAGE (V)	VALLEY POINT CURRENT (mA)		PEAK POINT Emitter CURRENT ( $\mu$ A)	INTRINSIC STAND-OFF RATIO		INTERBASE RESISTANCE ( $\Omega$ )	OUTLINE
		Min	Max		Min	Max		
2N2646	35	4	18	5	0.56	0.75	4.7k	9.1k
2N2647	35	8	18	2	0.68	0.82	4.7k	9.1k
2N2160	30	8		25	0.47	0.8	4k	12k

FETS TYPE	N or P	Vds Max (V)	Drain to Source Current when Vgs=0 (mA)		Pt max Power (mW)	Gate-Source Cut-off Voltage (Vgs) (V)		OUTLINE
			Min	Max		Min	Max	
2N3819	N	25	2	20	200	0.2	15	TO92b
2N3820	P	20	18 typical		200	4 typical		TO92b
2N5457	N	25	1	5	310	0.5	6	TO92c
2N5458	N	25	2	99	310	1	7	TO92c
2N5459	N	25	4	16	310	2	8	TO92c

## Transistor Outlines



## Transistor Codings

The preferred applications of many British and European semiconductors can be derived from their letter code. The first letter A describes a germanium device, a first letter B is for silicon devices. The second letter describes the following:-

A Diode low power  
C AF low power  
D AF low power  
E Tunnel Diode  
F RF low power  
L RF power

P Photo type  
S Switching low power  
V Switching power  
Y Diode power  
Z Zener Diode

# Reactance Chart

