

## Discrete Transistors

Small-Signal Bipolar Transistors (In Order of Ascending  $I_C$ )

## NPN Signal Transistor Selector Guide

Type	$I_C$ (Max.) mA	$V_{(BR)CEO}$ (Min.) V	Beta Range $h_{FE}$	Package
2N3390	100	18	400-800	TO-98
2N2923	100	25	115 Typ.	TO-98
2N2924	100	25	155 Typ.	TO-98
2N2925	100	25	215 Typ.	TO-98
2N2926	100	25	35-70	TO-98
2N2926-5	100	25	235-470	TO-98
2N3391	100	25	250-500	TO-98
2N3391A	100	25	250-500	TO-98
2N3392	100	25	150-300	TO-98
2N3393	100	25	90-180	TO-98
2N3394	100	25	55-110	TO-98
2N5172	100	25	100-500	TO-98
MPS5172	100	25	100-500	TO-92
PN5172	100	25	100-500	TO-92
2N3858	100	30	60-120	TO-98
2N3859	100	30	100-200	TO-98
2N3860	100	30	150-300	TO-98
2N5232	100	50	250-500	TO-98
2N5232A	100	50	250-500	TO-98
2N5249	100	50	400-800	TO-98
2N5249A	100	50	400-800	TO-98
2N3858A	100	60	60-120	TO-98
2N3859A	100	60	100-200	TO-98
MPS-L01	150	120	50-300	TO-92
2N4124	200	25	120-360	TO-92
2N4123	200	30	50-150	TO-92
2N3903	200	40	50-150	TO-92
2N3904	200	40	100-300	TO-92
• 2N5305	300	25	2K-20K	TO-98
• 2N5306	300	25	7K-70K	TO-98
• GES5305	300	25	2K-20K	TO-92
• GES5306	300	25	7K-70K	TO-92
• GES5306A	300	25	7K-70K	TO-92
• 2N5306A	300	40	7K-70K	TO-98
• 2N5307	300	40	2K-20K	TO-98
• 2N5308	300	40	7K-70K	TO-98
• 2N5308A	300	40	7K-70K	TO-98
• GES5307	300	40	2K-20K	TO-92
• GES5308	300	40	7K-70K	TO-92
• GES5308A	300	40	7K-70K	TO-92

• Darlington types

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Type	$I_C$ (Max.) mA	$V_{(BR)CEO}$ (Min.) V	Beta Range $h_{FE}$	Package
GES2221	400	30	40-120	TO-92
GES2222	400	30	100-300	TO-92
MPS2222	400	30	100-300	TO-92
PN2222	400	30	100-300	TO-92
GES2221A	400	40	40-120	TO-92
GES2222A	400	40	100-300	TO-92
MPS2222A	400	40	100-300	TO-92
PN2222A	400	40	100-300	TO-92
2N3414	500	25	75-225	TO-98
2N3415	500	25	180-540	TO-98
GES3414	500	25	75-225	TO-92
GES3415	500	25	180-540	TO-92
• MPS-A12	500	20	20K Min.	TO-92
• MPS-A13	500	30	5K Min.	TO-92
• MPS-A14	500	30	10K Min.	TO-92
2N4424	500	40	180-540	TO-92
2N3416	500	50	75-225	TO-92
2N3417	500	50	180-540	TO-92
GES3416	500	50	75-225	TO-92
GES3417	500	50	180-540	TO-92
MPS-A05	500	60	50 Min.	TO-92
MPS-A06	500	80	50 Min.	TO-92
MPS-A43	500	200	50-200	TO-92
MPS-A42	500	300	40 Min.	TO-92
MPS6532	600	30	30 Min.	TO-92
2N4400	600	40	50-150	TO-92
2N4401	600	40	100-300	TO-92
MPS6531	600	40	40-120	TO-92
GES5551	600	160	80-250	TO-92
GES5810	750	25	60-200	TO-92
GES5812	750	25	150-500	TO-92
GES5814	750	40	60-160	TO-92
GES5816	750	40	100-200	TO-92
GES5818	750	40	150-300	TO-92
GES2218	800	30	35 Min.	TO-92
GES2218A	800	30	75 Min.	TO-92
GES2219	800	30	35 Min.	TO-92
GES2219A	800	40	75 Min.	TO-92