

Small-signal Transistors

Selection guide

LEADED DEVICES (continued)

NPN LOW-POWER SWITCHING TRANSISTORS

| TYPE NUMBER | PACKAGE | V _{CEO} max. (V) | I _C max. (mA) | P _{tot} max. (mW) | h _{FE} min. | h _{FE} max. | f _T min. (MHz) | t _{off} max. (ns) | PNP COMPL. | PAGE |
|-------------|---------|---------------------------|--------------------------|----------------------------|----------------------|----------------------|---------------------------|----------------------------|------------|------|
| 2N2222 | TO-18 | 30 | 800 | 500 | 100 | 300 | 250 | 250 | 2N2907A | 121 |
| 2N2222A | TO-18 | 40 | 800 | 500 | 100 | 300 | 300 | 250 | 2N2907A | 121 |
| 2N2369 | TO-18 | 15 | 200 | 360 | 40 | 120 | 500 | 30 | – | 125 |
| 2N2369A | TO-18 | 15 | 200 | 360 | 40 | >40 | 500 | 30 | – | 125 |
| 2N3904 | TO-92 | 40 | 200 | 500 | 100 | 300 | 300 | 240 | 2N3906 | 150 |
| 2N4401 | TO-92 | 40 | 600 | 630 | 150 | 300 | 250 | 250 | 2N4403 | 165 |
| BCY58 | TO-18 | 32 | 100 | 340 | 120 | 630 | 150 | 800 | BCY78 | 458 |
| BCY58/VII | TO-18 | 32 | 100 | 340 | 120 | 220 | 150 | 800 | BCY78/VII | 458 |
| BCY58/VIII | TO-18 | 32 | 100 | 340 | 180 | 310 | 150 | 800 | BCY78/VIII | 458 |
| BCY58/IX | TO-18 | 32 | 100 | 340 | 250 | 460 | 150 | 800 | BCY78/IX | 458 |
| BCY58/X | TO-18 | 32 | 100 | 340 | 380 | 630 | 150 | 800 | BCY78/X | 458 |
| BCY59 | TO-18 | 45 | 100 | 340 | 120 | 630 | 150 | 800 | BCY79 | 458 |
| BCY59/VII | TO-18 | 45 | 100 | 340 | 120 | 220 | 150 | 800 | BCY79/VII | 458 |
| BCY59/VIII | TO-18 | 45 | 100 | 340 | 180 | 310 | 150 | 800 | BCY79/VIII | 458 |
| BCY59/IX | TO-18 | 45 | 100 | 340 | 250 | 460 | 150 | 800 | BCY79/IX | 458 |
| BCY59/X | TO-18 | 45 | 100 | 340 | 380 | 630 | 150 | 800 | BCY79/X | 458 |
| BSX20 | TO-18 | 15 | 200 | 360 | 40 | 120 | 500 | 30 | – | 747 |
| MPS3904 | TO-92 | 40 | 100 | 500 | 100 | 300 | 180 | 990 | MPS3906 | 806 |
| PH2222 | TO-92 | 30 | 600 | 500 | 75 | >75 | 250 | 250 | PH2907 | 942 |
| PH2222A | TO-92 | 40 | 600 | 500 | 75 | >75 | 300 | 250 | PH2907A | 942 |
| PH2369 | TO-92 | 15 | 200 | 500 | 40 | 120 | 500 | 30 | – | 946 |
| PH2369A | TO-92 | 15 | 200 | 500 | 40 | 120 | 500 | 30 | – | 946 |
| PN2222 | TO-92 | 30 | 600 | 500 | 100 | 300 | 250 | 250 | – | 1074 |
| PN2222A | TO-92 | 40 | 600 | 500 | 100 | 300 | 300 | 250 | PN2907A | 1074 |
| PN2369 | TO-92 | 15 | 200 | 500 | 40 | 120 | 500 | 30 | – | 1078 |
| PN2369A | TO-92 | 15 | 600 | 500 | 40 | 120 | 500 | 30 | – | 1078 |