

Small Signal Transistors

TO-92HS Case



P_D (@ $T_A=25^\circ\text{C}$)=1.0 Watt

| TYPE NO. | POLARITY | V_{CB0} | V_{CEO} | V_{EBO} | I_{CBO} @ | V_{CB} | h_{FE} | | I_C | V_{CE} | $V_{CE(SAT)}$ | I_C | C_{ob} | f_T | NF | LEAD CODE |
|------------|----------|------------|------------|------------|-------------|----------|----------|--------|-------|----------|---------------|-------|-------------|--------------|-------------|-----------|
| | | (V) MIN | (V) MIN | (V) MIN | (nA) MAX | (V) | MIN | MAX | (mA) | (V) | (V) MAX | (mA) | (pF) MAX | (MHz) MIN | (dB) MAX | |
| 2N3402 | NPN | 25 | 25 | 5.0 | 100 | 25 | 75 | 225 | 2.0 | 4.5 | 0.3 | 50 | -- | -- | -- | ECB |
| 2N3403 | NPN | 25 | 25 | 5.0 | 100 | 25 | 180 | 540 | 2.0 | 4.5 | 0.3 | 50 | -- | -- | -- | ECB |
| 2N3404 | NPN | 50 | 50 | 5.0 | 100 | 50 | 75 | 225 | 2.0 | 4.5 | 0.3 | 50 | -- | -- | -- | ECB |
| 2N3405 | NPN | 50 | 50 | 5.0 | 100 | 50 | 180 | 540 | 2.0 | 4.5 | 0.3 | 50 | -- | -- | -- | ECB |
| 2N4425 | NPN | 60 | 40 | 5.0 | 30 | 40 | 180 | 540 | 2.0 | 4.5 | 0.3 | 50 | -- | -- | -- | ECB |
| HS3402 | NPN | 25 | 25 | 5.0 | 100 | 25 | 75 | 225 | 2.0 | 4.5 | 0.3 | 50 | -- | -- | -- | EBC |
| HS3403 | NPN | 25 | 25 | 5.0 | 100 | 25 | 180 | 540 | 2.0 | 4.5 | 0.3 | 50 | -- | -- | -- | EBC |
| HS3404 | NPN | 50 | 50 | 5.0 | 100 | 50 | 75 | 225 | 2.0 | 4.5 | 0.3 | 50 | -- | -- | -- | EBC |
| HS3405 | NPN | 50 | 50 | 5.0 | 100 | 50 | 180 | 540 | 2.0 | 4.5 | 0.3 | 50 | -- | -- | -- | EBC |
| HS5306 | NPN | 25 | 25 | 12 | 100 | 25 | 7,000 | 70,000 | 2.0 | 5.0 | 1.4 | 200 | 10 | 60 | -- | ECB |
| HS5306A | NPN | 25 | 25 | 12 | 100 | 25 | 7,000 | 70,000 | 2.0 | 5.0 | 1.4 | 200 | 10 | 60 | 10 | ECB |
| HS5308 | NPN | 40 | 40 | 12 | 100 | 40 | 7,000 | 70,000 | 2.0 | 5.0 | 1.4 | 200 | 10 | 60 | -- | ECB |
| HS5308A | NPN | 40 | 40 | 12 | 100 | 40 | 7,000 | 70,000 | 2.0 | 5.0 | 1.4 | 200 | 10 | 60 | 10 | ECB |
| GES5810-J1 | NPN | 35 | 25 | 5.0 | 100 | 25 | 60 | 200 | 2.0 | 2.0 | 0.75 | 500 | 15 | 100 | -- | EBC |
| GES5811-J1 | PNP | 35 | 25 | 5.0 | 100 | 25 | 60 | 200 | 2.0 | 2.0 | 0.75 | 500 | 15 | 100 | -- | EBC |
| GES5812-J1 | NPN | 35 | 25 | 5.0 | 100 | 25 | 150 | 500 | 2.0 | 2.0 | 0.75 | 500 | 15 | 135 | -- | EBC |
| GES5813-J1 | PNP | 35 | 25 | 5.0 | 100 | 25 | 150 | 500 | 2.0 | 2.0 | 0.75 | 500 | 15 | 135 | -- | EBC |
| GES5814-J1 | NPN | 50 | 40 | 5.0 | 100 | 25 | 60 | 160 | 2.0 | 2.0 | 0.75 | 500 | 15 | 100 | -- | EBC |
| GES5815-J1 | PNP | 50 | 40 | 5.0 | 100 | 25 | 60 | 160 | 2.0 | 2.0 | 0.75 | 500 | 15 | 100 | -- | EBC |
| GES5816-J1 | NPN | 50 | 40 | 5.0 | 100 | 25 | 100 | 200 | 2.0 | 2.0 | 0.75 | 500 | 15 | 120 | -- | EBC |
| GES5817-J1 | PNP | 50 | 40 | 5.0 | 100 | 25 | 200 | 200 | 2.0 | 2.0 | 0.75 | 500 | 15 | 120 | -- | EBC |
| GES5818-J1 | NPN | 50 | 40 | 5.0 | 100 | 25 | 150 | 300 | 2.0 | 2.0 | 0.75 | 500 | 15 | 135 | -- | EBC |
| GES5819-J1 | PNP | 50 | 40 | 5.0 | 100 | 25 | 150 | 300 | 2.0 | 2.0 | 0.75 | 500 | 15 | 135 | -- | EBC |
| GES5820-J1 | NPN | 70 | 60 | 5.0 | 100 | 25 | 60 | 160 | 2.0 | 2.0 | 0.75 | 500 | 15 | 100 | -- | EBC |
| GES5821-J1 | PNP | 70 | 60 | 5.0 | 100 | 25 | 60 | 160 | 2.0 | 2.0 | 0.75 | 500 | 15 | 100 | -- | EBC |
| GES5822-J1 | NPN | 70 | 60 | 5.0 | 100 | 25 | 100 | 200 | 2.0 | 2.0 | 0.75 | 500 | 15 | 120 | -- | EBC |
| GES5823-J1 | PNP | 70 | 60 | 5.0 | 100 | 25 | 100 | 200 | 2.0 | 2.0 | 0.75 | 500 | 15 | 120 | -- | EBC |
| GES6010-J1 | NPN | 50 | 40 | 5.0 | 10 | 25 | 100 | 300 | 10 | 1.0 | 0.5 | 500 | 10 | 105 | 5.0 | EBC |
| GES6011-J1 | PNP | 50 | 40 | 5.0 | 10 | 25 | 100 | 300 | 10 | 1.0 | 0.75 | 500 | 15 | 75 | 3.0 | EBC |
| GES6012-J1 | NPN | 50 | 40 | 5.0 | 10 | 25 | 200 | 500 | 10 | 1.0 | 0.5 | 500 | 10 | 135 | 3.0 | EBC |
| GES6013-J1 | PNP | 50 | 40 | 5.0 | 10 | 25 | 200 | 500 | 10 | 1.0 | 0.75 | 500 | 15 | 100 | 2.0 | EBC |
| GES6014-J1 | NPN | 70 | 60 | 5.0 | 10 | 25 | 100 | 300 | 10 | 1.0 | 0.5 | 500 | 10 | 105 | 5.0 | EBC |
| GES6015-J1 | PNP | 70 | 60 | 5.0 | 10 | 25 | 100 | 300 | 10 | 1.0 | 0.75 | 500 | 15 | 75 | 3.0 | EBC |
| GES6016-J1 | NPN | 70 | 60 | 5.0 | 10 | 25 | 200 | 500 | 10 | 1.0 | 0.5 | 500 | 10 | 135 | 3.0 | EBC |
| GES6017-J1 | PNP | 70 | 60 | 5.0 | 10 | 25 | 200 | 500 | 10 | 1.0 | 0.75 | 500 | 15 | 100 | 2.0 | EBC |
| GES6218-J1 | NPN | 300 | 300 | 5.0 | 500 | 250 | 20 | -- | 20 | 10 | 1.0 | 10 | 5.0 | 50 | -- | EBC |
| GES6219-J1 | NPN | 250 | 250 | 5.0 | 1,000 | 200 | 20 | -- | 20 | 10 | 1.0 | 10 | 5.0 | 50 | -- | EBC |
| GES6220-J1 | NPN | 200 | 200 | 5.0 | 1,000 | 150 | 20 | -- | 20 | 10 | 2.0 | 20 | 5.0 | 50 | -- | EBC |
| GES6221-J1 | NPN | 150 | 150 | 5.0 | 10,000 | 100 | 20 | -- | 20 | 10 | 2.3 | 20 | 5.0 | 50 | -- | EBC |

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