

FIELD-EFFECT TRANSISTORS (continued)

Switches and Choppers (continued)

N-Channel JFETs

| Package TO — | Device | $r_{ds(on)}$ | | $V_{GS(off)}$ | | I_{DSS} | | $V_{(BR)GSS}$ $V_{(BR)GDO}$ | C_{iss} | C_{rss} | t_{on} | t_{off} |
|--------------|-------------|---------------------|---------------------------|---------------|--------------------|-------------|-------------|--------------------------------|-----------------|------------------|-----------------|-----------------|
| | | (Ω) MAX | @ I_D (μA) | (V) MIN | (V) MAX | (mA) MIN | (mA) MAX | (V) MIN | (pF) MAX | (pF) MAX | (ns) MAX | (ns) MAX |
| 18 | 2N4860A | 40 | — | 2.0 | 6.0 | 20 | 100 | 30 | 10 | 3.5 | 10 | 40 |
| 18 | 2N4857 | 40 | — | 2.0 | 6.0 | 20 | 100 | 40 | 18 | 8.0 | 10 | 50 |
| 18 | 2N4860 | 40 | — | 2.0 | 6.0 | 20 | 100 | 30 | 18 | 8.0 | 10 | 50 |
| 18 | 2N4092 | 50 | 1.0 | 2.0 | 7.0 | 15 | — | 40 | 16 | 5.0 | 35 | 60 |
| 92 | MPF4092 | 50 | 1.0 | 2.0 | 7.0 | 15 | — | 40 | 16 | 5.0 | 35 | 60 |
| 92 | J112 | 50 | 1.0 | 1.0 | 5.0 | 5.0 | — | 35 | 10 ^t | 5.0 ^t | 13 ^t | 35 ^t |
| 18 | 2N4392 | 60 | 1.0 | 2.0 | 5.0 | 25 | 75 | 40 | 14 | 3.5 | 15 | 35 |
| 92 | MPF4392 | 60 | 1.0 | 2.0 | 5.0 | 25 | 75 | 20 | 10 | 3.5 | 15 | 35 |
| 18 | 2N4858A | 60 | 1.0 | 0.8 | 4.0 | 8.0 | 80 | 40 | 10 | 3.5 | 16 | 80 |
| 18 | 2N4861A | 60 | — | 0.8 | 4.0 | 8.0 | 80 | 30 | 10 | 3.5 | 16 | 80 |
| 92 | 2N5639 | 60 | 1.0 | — | (8.0) ^t | 25 | — | 30 | 10 | 4.0 | 14 | 30 |
| 18 | 2N3971 | 60 | 1.0 | 2.0 | 5.0 | 25 | 75 | 40 | 25 | 6.0 | 30 | 60 |
| 18 | 2N4858 | 60 | — | 0.8 | 4.0 | 8.0 | 80 | 40 | 18 | 8.0 | 20 | 100 |
| 18 | 2N4861 | 60 | — | 0.8 | 4.0 | 8.0 | 80 | 30 | 18 | 8.0 | 20 | 100 |
| 18 | 2N4093 | 80 | 1.0 | 1.0 | 5.0 | 80 | — | 40 | 16 | 5.0 | 60 | 80 |
| 92 | MPF4093 | 80 | 1.0 | 1.0 | 5.0 | 80 | — | 40 | 16 | 5.0 | 60 | 80 |
| 72 | MPF3002 | 100 | 10 V | — | 3.0 | — | 10 | 15 | 5.0 | 1.5 | — | — |
| 18 | 2N4393 | 100 | 1.0 | 0.5 | 3.0 | 5.0 | 30 | 40 | 14 | 3.5 | 15 | 50 |
| 92 | MPF4393 | 100 | 1.0 | 0.5 | 3.0 | 5.0 | 30 | 20 | 10 | 3.5 | 15 | 55 |
| 92 | 2N5640 | 100 | 1.0 | — | (6.0) | 5.0 | — | 30 | 10 | 4.0 | 18 | 45 |
| 18 | 2N3972 | 100 | 1.0 | 0.5 | 3.0 | 5.0 | 30 | 40 | 25 | 6.0 | 80 | 100 |
| 92 | J113 | 100 | 1.0 | 0.5 | 3.0 | 2.0 | — | 35 | 10 ^t | 5.0 ^t | 13 ^t | 35 ^t |
| 92 | BF246A/247A | 35 ^t | 1.0 | 1.5 | 4.0 | 30 | 80 | 25 | — | — | — | — |
| 92 | BF246B/247B | 50 ^t | 1.0 | 3.0 | 7.0 | 60 | 140 | 25 | — | — | — | — |
| 92 | BF246C/247C | 65 ^t | 1.0 | 5.5 | 12.0 | 110 | 250 | 25 | — | — | — | — |
| 92 | J107 | 8 | — | 0.5 | 4.5 | 100 | — | 25 | — | — | — | — |
| 92 | J108 | 8 | — | 3.0 | 10.0 | 80 | — | 25 | — | — | — | — |
| 92 | J109 | 12 | — | 2.0 | 6.0 | 40 | — | 25 | — | — | — | — |
| 92 | J110 | 18 | — | 0.5 | 4.0 | 10 | — | 25 | — | — | — | — |

t = typical

Low-Frequency/Low-Noise

P-Channel JFETs

| Package TO — | Device | $R_e Y_{fs}$ | $R_e Y_{os}$ | C_{iss} | C_{rss} | $V_{(BR)GSS}$ $V_{(BR)GDO}$ | $V_{GS(off)}$ | | I_{DSS} | |
|--------------|--------|---------------|---------------------|---------------|-------------|--------------------------------|----------------|-----|-----------------|-----|
| | | (mmho) MIN | (μ mho) MAX | (pF) (MAX) | (pF) MAX | (V) MIN | (V) MIN MAX | | (mA) MIN MAX | |
| 72 | 2N3909 | 1.0 | 100 | 32 | 16 | 20 | 0.3 | 7.9 | 0.3 | 15 |
| 18 | 2N2608 | 1.0 | 17 | — | — | 30 | 1.0 | 4.0 | 0.9 | 4.5 |
| 92 | 2N5460 | 1.0 | 50 | 7.0 | 2.0 | 40 | 0.75 | 6.0 | 1.0 | 5.0 |
| 92 | 2N5463 | 1.0 | 75 | 7.0 | 2.0 | 60 | 0.5 | 4.0 | 1.0 | 5.0 |
| 92 | 2N5461 | 1.5 | 50 | 7.0 | 2.0 | 40 | 1.0 | 7.5 | 2.0 | 9.0 |
| 92 | 2N5464 | 1.5 | 75 | 7.0 | 2.0 | 60 | 0.8 | 4.5 | 2.0 | 9.0 |