

NPN EPITAXIAL SILICON TRANSISTOR
FOR HIGH-FREQUENCY LOW-NOISE AMPLIFICATION

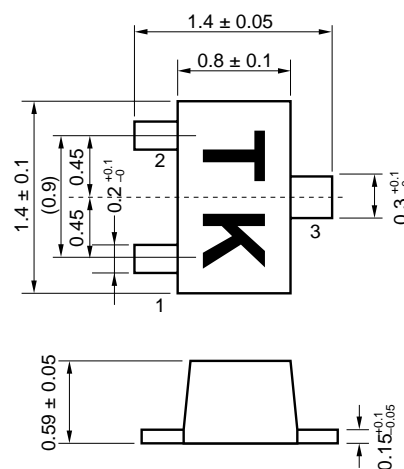
FEATURE

- Ultra super mini-mold thin flat package
(1.4 mm × 0.8 mm × 0.59 mm: TYP.)
- Contains same chip as 2SC5010

ABSOLUTE MAXIMUM RATINGS (T_A = 25 °C)

| PARAMETER | SYMBOL | RATING | UNIT |
|------------------------------|------------------|-------------|------|
| Collector to Base Voltage | V _{CB0} | 9 | V |
| Collector to Emitter Voltage | V _{CEO} | 6 | V |
| Emitter to Base Voltage | V _{EBO} | 2 | V |
| Collector Current | I _C | 30 | mA |
| Total Power Dissipation | P _T | 125 | mW |
| Junction Temperature | T _J | 150 | °C |
| Storage Temperature | T _{stg} | -65 to +150 | °C |

PACKAGE DIMENSIONS (in mm)



PIN CONNECTIONS

- 1: Emitter
- 2: Base
- 3: Collector

ELECTRICAL CHARACTERISTICS (T_A = 25 °C)

| PARAMETER | SYMBOL | TEST CONDITIONS | MIN. | TYP. | MAX. | UNIT |
|------------------------------|---------------------------------|--|------|------|------|------|
| Collector Cut-off Current | I _{CBO} | V _{CB} = 5 V, I _E = 0 | | | 100 | nA |
| Emitter Cut-off Current | I _{EBO} | V _{EB} = 1 V, I _C = 0 | | | 100 | nA |
| DC Current Gain | h _{FE} | V _{CE} = 3 V, I _C = 10 mA ^{Note 1} | 75 | | 140 | |
| Gain Bandwidth Product | f _T | V _{CE} = 3 V, I _C = 10 mA, f = 2 GHz | | 12.0 | | GHz |
| Reverse Transfer Capacitance | C _{re} | V _{CB} = 3 V, I _E = 0, f = 1 MHz ^{Note 2} | | 0.4 | 0.7 | pF |
| Insertion Power Gain | S _{21e} ² | V _{CE} = 3 V, I _C = 10 mA, f = 2 GHz | 7.0 | 8.5 | | dB |
| Noise Figure | NF | V _{CE} = 3 V, I _C = 3 mA, f = 2 GHz | | 1.5 | 2.5 | dB |

Notes 1. Pulse measurement P_w ≤ 350 μs, duty cycle ≤ 2 %

2. Collector to base capacitance measured by capacitance meter (automatic balance bridge method) when emitter pin is connected to the guard pin.

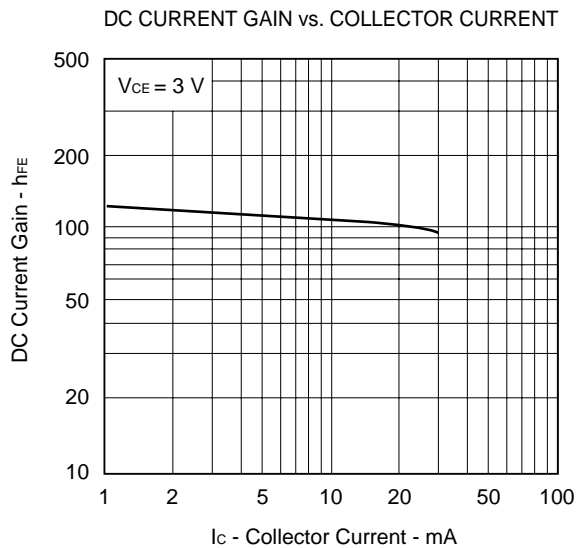
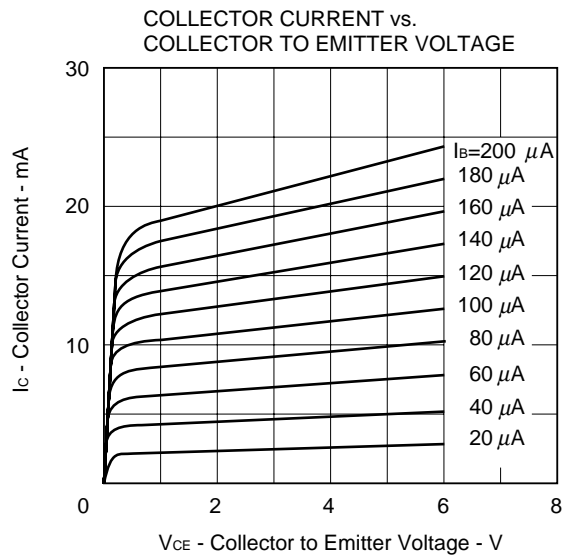
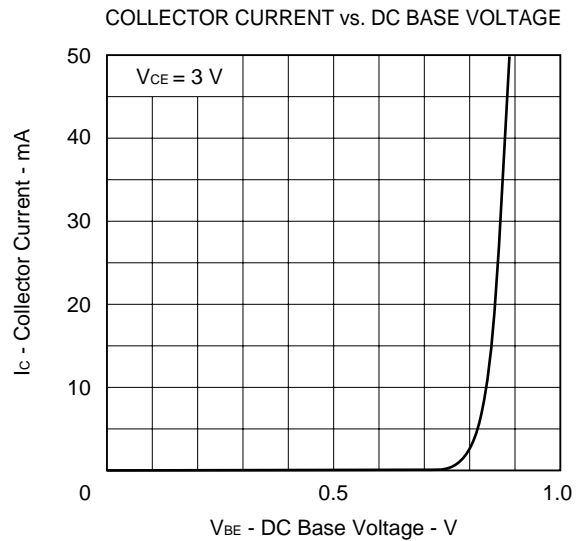
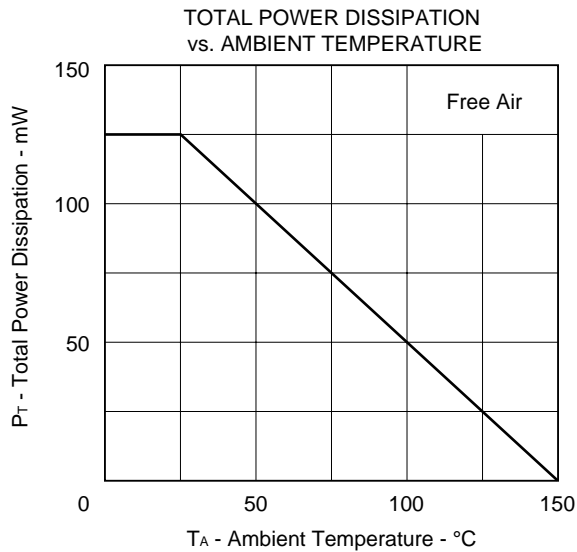
Because this product uses high-frequency process, avoid excessive input of static electricity, etc.

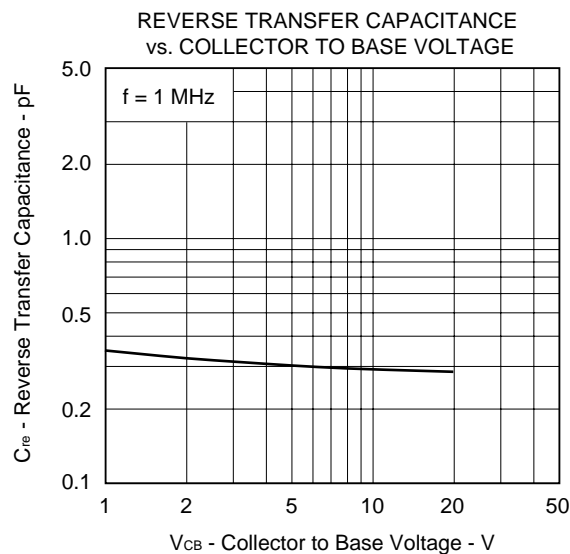
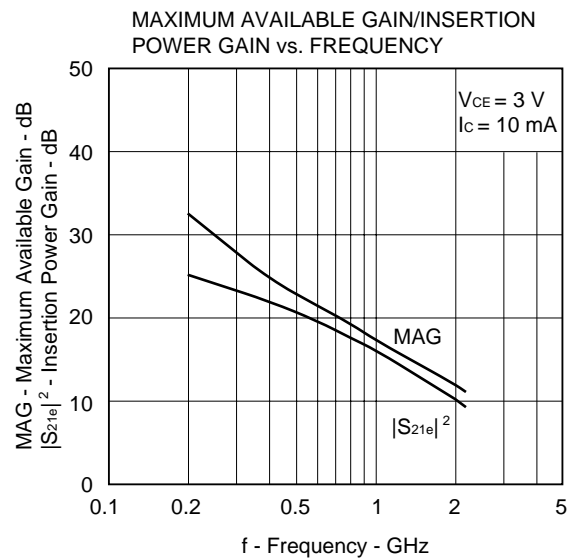
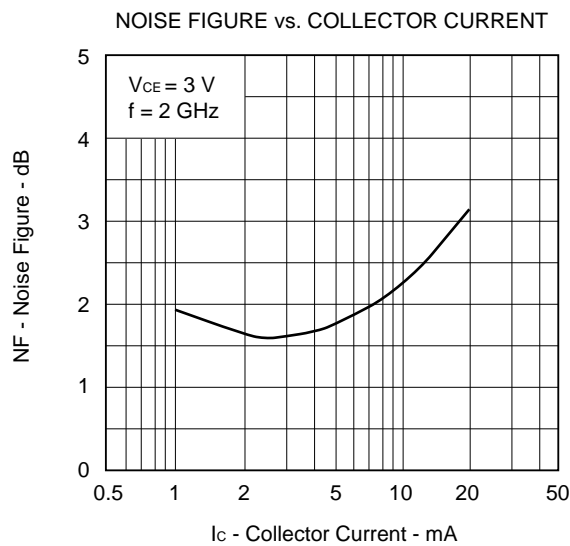
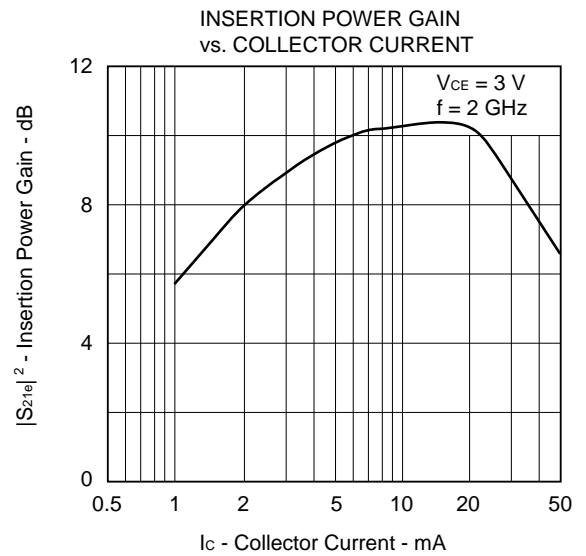
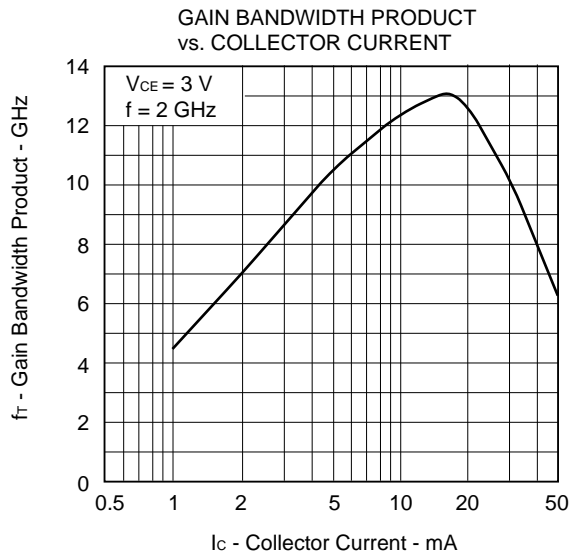
The information in this document is subject to change without notice.

h_{FE} CLASSIFICATION

| | | |
|-----------------|-----------|-----------|
| RANK | EB | FB |
| Marking | TK | TL |
| h _{FE} | 75 to 110 | 95 to 140 |

TYPICAL CHARACTERISTICS (T_A = 25 °C)





2SC5435 S PARAMETER

V_{CE} = 3.0 V, I_c = 10.0 mA, Z₀ = 50 Ω

| FREQUENCY MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|------------------|-----------------|--------|-----------------|-------|-----------------|------|-----------------|-------|
| | MAG | ANG | MAG | ANG | MAG | ANG | MAG | ANG |
| 200.00 | 0.598 | -41.6 | 18.159 | 140.3 | 0.031 | 70.0 | 0.812 | -26.3 |
| 400.00 | 0.414 | -79.4 | 12.683 | 117.6 | 0.048 | 62.5 | 0.575 | -38.7 |
| 600.00 | 0.330 | -103.3 | 9.464 | 103.5 | 0.062 | 61.7 | 0.447 | -45.3 |
| 800.00 | 0.278 | -120.6 | 7.552 | 95.5 | 0.074 | 62.2 | 0.385 | -48.1 |
| 1000.00 | 0.246 | -136.4 | 6.295 | 90.1 | 0.087 | 61.8 | 0.345 | -48.2 |
| 1200.00 | 0.237 | -150.5 | 5.402 | 84.8 | 0.101 | 62.0 | 0.310 | -47.3 |
| 1400.00 | 0.239 | -160.6 | 4.670 | 79.1 | 0.116 | 62.0 | 0.277 | -48.3 |
| 1600.00 | 0.235 | -170.5 | 4.065 | 74.9 | 0.131 | 62.4 | 0.247 | -50.7 |
| 1800.00 | 0.239 | 179.4 | 3.597 | 71.5 | 0.143 | 63.2 | 0.225 | -54.1 |
| 2000.00 | 0.257 | 170.1 | 3.246 | 68.0 | 0.154 | 61.8 | 0.206 | -57.7 |
| 2200.00 | 0.280 | 164.1 | 2.987 | 63.2 | 0.167 | 60.3 | 0.184 | -62.1 |
| 2400.00 | 0.299 | 160.0 | 2.780 | 59.2 | 0.181 | 58.6 | 0.165 | -69.6 |
| 2600.00 | 0.315 | 155.6 | 2.609 | 57.0 | 0.199 | 57.9 | 0.153 | -77.7 |
| 2800.00 | 0.334 | 151.5 | 2.465 | 54.8 | 0.210 | 58.1 | 0.146 | -85.0 |
| 3000.00 | 0.350 | 148.7 | 2.272 | 51.0 | 0.217 | 56.6 | 0.136 | -92.0 |

V_{CE} = 3.0 V, I_c = 7.0 mA, Z₀ = 50 Ω

| FREQUENCY MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|------------------|-----------------|--------|-----------------|-------|-----------------|------|-----------------|-------|
| | MAG | ANG | MAG | ANG | MAG | ANG | MAG | ANG |
| 200.00 | 0.688 | -38.7 | 15.412 | 145.5 | 0.034 | 70.5 | 0.863 | -22.7 |
| 400.00 | 0.498 | -69.0 | 11.461 | 123.2 | 0.053 | 61.6 | 0.645 | -36.0 |
| 600.00 | 0.400 | -92.5 | 8.826 | 108.0 | 0.067 | 58.4 | 0.509 | -44.4 |
| 800.00 | 0.332 | -109.1 | 7.158 | 99.1 | 0.079 | 58.4 | 0.439 | -48.5 |
| 1000.00 | 0.286 | -124.4 | 6.055 | 93.0 | 0.091 | 58.1 | 0.391 | -49.2 |
| 1200.00 | 0.263 | -139.1 | 5.221 | 87.3 | 0.104 | 57.9 | 0.349 | -48.9 |
| 1400.00 | 0.257 | -150.4 | 4.513 | 81.1 | 0.118 | 58.4 | 0.311 | -50.2 |
| 1600.00 | 0.249 | -161.0 | 3.957 | 76.6 | 0.133 | 59.0 | 0.277 | -52.6 |
| 1800.00 | 0.248 | -172.1 | 3.495 | 72.8 | 0.143 | 60.3 | 0.253 | -55.9 |
| 2000.00 | 0.262 | 177.1 | 3.158 | 69.1 | 0.153 | 59.1 | 0.232 | -59.2 |
| 2200.00 | 0.283 | 169.9 | 2.903 | 64.2 | 0.166 | 57.6 | 0.209 | -63.3 |
| 2400.00 | 0.302 | 164.9 | 2.712 | 59.9 | 0.180 | 56.4 | 0.189 | -70.0 |
| 2600.00 | 0.317 | 159.9 | 2.547 | 57.5 | 0.197 | 55.8 | 0.177 | -77.7 |
| 2800.00 | 0.333 | 155.3 | 2.408 | 55.3 | 0.206 | 56.2 | 0.169 | -83.9 |
| 3000.00 | 0.350 | 151.9 | 2.221 | 51.5 | 0.213 | 55.2 | 0.158 | -89.8 |

V_{CE} = 3.0 V, I_c = 5.0 mA, Z₀ = 50 Ω

| FREQUENCY MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|------------------|-----------------|--------|-----------------|-------|-----------------|------|-----------------|-------|
| | MAG | ANG | MAG | ANG | MAG | ANG | MAG | ANG |
| 200.00 | 0.773 | -31.6 | 12.320 | 150.7 | 0.036 | 72.7 | 0.910 | -18.8 |
| 400.00 | 0.595 | -58.3 | 9.846 | 129.7 | 0.060 | 62.0 | 0.725 | -31.8 |
| 600.00 | 0.491 | -81.2 | 7.923 | 114.1 | 0.075 | 56.6 | 0.587 | -41.7 |
| 800.00 | 0.412 | -97.4 | 6.600 | 103.8 | 0.087 | 55.2 | 0.512 | -47.3 |
| 1000.00 | 0.350 | -111.8 | 5.638 | 96.9 | 0.098 | 54.0 | 0.457 | -49.1 |
| 1200.00 | 0.310 | -126.2 | 4.908 | 90.8 | 0.110 | 53.7 | 0.406 | -49.4 |
| 1400.00 | 0.293 | -138.4 | 4.286 | 83.9 | 0.124 | 53.8 | 0.362 | -51.0 |
| 1600.00 | 0.278 | -149.6 | 3.766 | 78.8 | 0.136 | 55.2 | 0.323 | -53.6 |
| 1800.00 | 0.267 | -161.4 | 3.388 | 74.5 | 0.145 | 56.1 | 0.296 | -56.8 |
| 2000.00 | 0.274 | -173.7 | 3.018 | 70.5 | 0.154 | 55.1 | 0.272 | -60.1 |
| 2200.00 | 0.293 | 177.6 | 2.786 | 65.3 | 0.165 | 54.0 | 0.247 | -63.9 |
| 2400.00 | 0.310 | 171.5 | 2.600 | 60.9 | 0.179 | 53.0 | 0.225 | -69.8 |
| 2600.00 | 0.323 | 165.9 | 2.492 | 58.1 | 0.194 | 53.1 | 0.212 | -76.5 |
| 2800.00 | 0.337 | 160.4 | 2.314 | 55.6 | 0.203 | 53.5 | 0.204 | -82.2 |
| 3000.00 | 0.354 | 156.2 | 2.138 | 51.7 | 0.208 | 52.4 | 0.191 | -86.9 |

2SC5435 S PARAMETER

V_{CE} = 3.0 V, I_c = 3.0 mA, Z₀ = 50 Ω

| FREQUENCY MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|------------------|-----------------|--------|-----------------|-------|-----------------|------|-----------------|-------|
| | MAG | ANG | MAG | ANG | MAG | ANG | MAG | ANG |
| 200.00 | 0.858 | -24.0 | 8.684 | 157.0 | 0.038 | 74.9 | 0.951 | -14.1 |
| 400.00 | 0.716 | -45.8 | 7.442 | 138.3 | 0.067 | 63.9 | 0.818 | -25.7 |
| 600.00 | 0.617 | -67.2 | 6.355 | 122.7 | 0.088 | 56.7 | 0.693 | -36.4 |
| 800.00 | 0.538 | -82.8 | 5.529 | 111.3 | 0.101 | 52.6 | 0.621 | -43.8 |
| 1000.00 | 0.460 | -96.4 | 4.885 | 103.3 | 0.112 | 49.4 | 0.564 | -47.0 |
| 1200.00 | 0.399 | -109.7 | 4.332 | 96.5 | 0.124 | 47.3 | 0.504 | -48.4 |
| 1400.00 | 0.365 | -122.4 | 3.819 | 88.6 | 0.136 | 47.6 | 0.449 | -50.6 |
| 1600.00 | 0.338 | -133.9 | 3.390 | 82.5 | 0.145 | 48.7 | 0.403 | -53.5 |
| 1800.00 | 0.314 | -145.6 | 3.039 | 77.6 | 0.151 | 49.4 | 0.370 | -56.9 |
| 2000.00 | 0.304 | -159.0 | 2.758 | 73.0 | 0.157 | 48.2 | 0.341 | -60.0 |
| 2200.00 | 0.316 | -170.1 | 2.549 | 67.1 | 0.167 | 47.7 | 0.314 | -63.5 |
| 2400.00 | 0.331 | -177.4 | 2.402 | 62.6 | 0.178 | 47.3 | 0.289 | -69.1 |
| 2600.00 | 0.340 | 175.8 | 2.289 | 59.2 | 0.191 | 47.6 | 0.275 | -74.9 |
| 2800.00 | 0.349 | 169.4 | 2.133 | 56.4 | 0.197 | 48.6 | 0.268 | -79.6 |
| 3000.00 | 0.364 | 163.8 | 1.977 | 52.1 | 0.201 | 47.9 | 0.252 | -83.3 |

V_{CE} = 3.0 V, I_c = 1.0 mA, Z₀ = 50 Ω

| FREQUENCY MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|------------------|-----------------|--------|-----------------|-------|-----------------|------|-----------------|-------|
| | MAG | ANG | MAG | ANG | MAG | ANG | MAG | ANG |
| 200.00 | 0.954 | -13.7 | 3.491 | 165.5 | 0.040 | 79.6 | 0.989 | -7.4 |
| 400.00 | 0.886 | -27.2 | 3.221 | 152.2 | 0.078 | 71.1 | 0.935 | -14.5 |
| 600.00 | 0.817 | -43.2 | 2.976 | 139.2 | 0.110 | 62.2 | 0.864 | -23.4 |
| 800.00 | 0.782 | -57.0 | 2.826 | 127.6 | 0.134 | 55.5 | 0.828 | -31.9 |
| 1000.00 | 0.725 | -68.5 | 2.750 | 118.6 | 0.154 | 48.9 | 0.803 | -36.9 |
| 1200.00 | 0.654 | -79.3 | 2.528 | 111.1 | 0.171 | 43.2 | 0.751 | -40.0 |
| 1400.00 | 0.594 | -90.9 | 2.298 | 101.8 | 0.186 | 39.7 | 0.690 | -43.5 |
| 1600.00 | 0.545 | -102.6 | 2.186 | 93.2 | 0.191 | 38.2 | 0.632 | -47.4 |
| 1800.00 | 0.502 | -112.9 | 2.053 | 86.4 | 0.193 | 36.2 | 0.592 | -51.8 |
| 2000.00 | 0.452 | -125.6 | 1.892 | 80.3 | 0.191 | 32.5 | 0.558 | -55.7 |
| 2200.00 | 0.434 | -138.7 | 1.770 | 73.0 | 0.196 | 30.6 | 0.523 | -59.2 |
| 2400.00 | 0.440 | -149.2 | 1.689 | 66.6 | 0.199 | 29.6 | 0.491 | -64.5 |
| 2600.00 | 0.436 | -157.2 | 1.632 | 61.9 | 0.202 | 29.8 | 0.477 | -69.9 |
| 2800.00 | 0.427 | -165.3 | 1.536 | 57.9 | 0.197 | 30.6 | 0.472 | -74.1 |
| 3000.00 | 0.427 | -173.5 | 1.438 | 52.9 | 0.193 | 30.3 | 0.453 | -77.3 |

V_{CE} = 1.0 V, I_c = 5.0 mA, Z₀ = 50 Ω

| FREQUENCY MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|------------------|-----------------|--------|-----------------|-------|-----------------|------|-----------------|--------|
| | MAG | ANG | MAG | ANG | MAG | ANG | MAG | ANG |
| 200.00 | 0.750 | -36.8 | 12.139 | 148.1 | 0.043 | 69.6 | 0.883 | -23.4 |
| 400.00 | 0.570 | -67.3 | 9.418 | 126.2 | 0.070 | 58.2 | 0.669 | -39.8 |
| 600.00 | 0.476 | -92.0 | 7.424 | 110.4 | 0.087 | 53.3 | 0.526 | -51.9 |
| 800.00 | 0.404 | -109.5 | 6.104 | 100.4 | 0.098 | 51.4 | 0.444 | -58.7 |
| 1000.00 | 0.354 | -125.4 | 5.191 | 93.7 | 0.111 | 50.3 | 0.380 | -61.7 |
| 1200.00 | 0.330 | -140.0 | 4.491 | 87.3 | 0.124 | 49.8 | 0.326 | -63.7 |
| 1400.00 | 0.323 | -151.1 | 3.905 | 80.4 | 0.139 | 50.3 | 0.281 | -67.3 |
| 1600.00 | 0.312 | -161.5 | 3.422 | 75.5 | 0.151 | 51.5 | 0.245 | -71.8 |
| 1800.00 | 0.308 | -172.4 | 3.031 | 71.2 | 0.161 | 52.3 | 0.219 | -76.5 |
| 2000.00 | 0.320 | 177.0 | 2.732 | 67.1 | 0.170 | 51.2 | 0.194 | -82.0 |
| 2200.00 | 0.342 | 169.8 | 2.517 | 61.9 | 0.183 | 49.8 | 0.169 | -90.3 |
| 2400.00 | 0.360 | 164.6 | 2.361 | 57.6 | 0.197 | 48.9 | 0.157 | -100.8 |
| 2600.00 | 0.373 | 159.6 | 2.243 | 54.8 | 0.212 | 48.9 | 0.154 | -110.5 |
| 2800.00 | 0.389 | 154.8 | 2.075 | 52.4 | 0.220 | 49.0 | 0.150 | -118.5 |
| 3000.00 | 0.405 | 151.2 | 1.914 | 48.2 | 0.226 | 47.8 | 0.147 | -126.7 |

2SC5435 S PARAMETER

V_{CE} = 1.0 V, I_c = 3.0 mA, Z₀ = 50 Ω

| FREQUENCY MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|------------------|-----------------|--------|-----------------|-------|-----------------|------|-----------------|--------|
| | MAG | ANG | MAG | ANG | MAG | ANG | MAG | ANG |
| 200.00 | 0.845 | -27.5 | 8.623 | 154.9 | 0.048 | 72.9 | 0.936 | -17.5 |
| 400.00 | 0.692 | -52.2 | 7.239 | 135.2 | 0.080 | 60.6 | 0.777 | -31.9 |
| 600.00 | 0.596 | -75.4 | 6.076 | 119.0 | 0.103 | 53.2 | 0.643 | -44.6 |
| 800.00 | 0.516 | -92.2 | 5.213 | 107.7 | 0.116 | 48.5 | 0.561 | -53.0 |
| 1000.00 | 0.447 | -107.1 | 4.559 | 99.7 | 0.129 | 45.3 | 0.492 | -57.2 |
| 1200.00 | 0.398 | -121.7 | 4.018 | 92.7 | 0.141 | 43.5 | 0.429 | -59.9 |
| 1400.00 | 0.375 | -134.1 | 3.526 | 84.8 | 0.154 | 43.6 | 0.373 | -63.5 |
| 1600.00 | 0.355 | -145.5 | 3.117 | 78.8 | 0.163 | 44.7 | 0.328 | -67.9 |
| 1800.00 | 0.336 | -157.2 | 2.779 | 73.8 | 0.169 | 45.0 | 0.295 | -72.2 |
| 2000.00 | 0.336 | -169.7 | 2.520 | 69.4 | 0.175 | 44.1 | 0.266 | -76.7 |
| 2200.00 | 0.354 | -179.1 | 2.330 | 63.9 | 0.185 | 43.1 | 0.235 | -83.0 |
| 2400.00 | 0.370 | 174.4 | 2.187 | 58.8 | 0.196 | 42.6 | 0.217 | -91.3 |
| 2600.00 | 0.380 | 168.5 | 2.083 | 55.6 | 0.209 | 43.0 | 0.210 | -99.1 |
| 2800.00 | 0.391 | 162.7 | 1.931 | 52.8 | 0.214 | 43.5 | 0.203 | -105.2 |
| 3000.00 | 0.406 | 158.0 | 1.785 | 48.3 | 0.218 | 42.8 | 0.194 | -111.2 |

V_{CE} = 1.0 V, I_c = 1.0 mA, Z₀ = 50 Ω

| FREQUENCY MHz | S ₁₁ | | S ₂₁ | | S ₁₂ | | S ₂₂ | |
|------------------|-----------------|--------|-----------------|-------|-----------------|------|-----------------|-------|
| | MAG | ANG | MAG | ANG | MAG | ANG | MAG | ANG |
| 200.00 | 0.950 | -15.4 | 3.449 | 164.3 | 0.050 | 80.0 | 0.985 | -9.0 |
| 400.00 | 0.874 | -30.3 | 3.205 | 149.9 | 0.094 | 68.3 | 0.921 | -17.6 |
| 600.00 | 0.804 | -47.6 | 2.937 | 136.1 | 0.132 | 59.3 | 0.840 | -28.0 |
| 800.00 | 0.764 | -62.1 | 2.773 | 123.9 | 0.160 | 51.8 | 0.796 | -37.4 |
| 1000.00 | 0.700 | -74.5 | 2.666 | 114.7 | 0.181 | 44.6 | 0.758 | -43.0 |
| 1200.00 | 0.628 | -86.3 | 2.427 | 106.6 | 0.200 | 38.8 | 0.697 | -46.8 |
| 1400.00 | 0.574 | -98.6 | 2.200 | 96.9 | 0.216 | 35.6 | 0.630 | -51.1 |
| 1600.00 | 0.529 | -110.5 | 2.080 | 88.4 | 0.220 | 33.5 | 0.570 | -55.7 |
| 1800.00 | 0.487 | -121.4 | 1.938 | 81.7 | 0.220 | 31.1 | 0.530 | -60.5 |
| 2000.00 | 0.447 | -134.5 | 1.779 | 75.6 | 0.218 | 27.3 | 0.493 | -64.9 |
| 2200.00 | 0.438 | -147.4 | 1.660 | 68.2 | 0.222 | 25.2 | 0.453 | -69.4 |
| 2400.00 | 0.446 | -157.1 | 1.581 | 61.7 | 0.224 | 24.4 | 0.424 | -75.7 |
| 2600.00 | 0.445 | -164.9 | 1.523 | 57.4 | 0.225 | 24.1 | 0.412 | -81.8 |
| 2800.00 | 0.440 | -172.6 | 1.425 | 53.3 | 0.220 | 24.1 | 0.406 | -86.3 |
| 3000.00 | 0.444 | 179.8 | 1.332 | 48.0 | 0.216 | 23.5 | 0.387 | -90.2 |

[MEMO]

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