

RF Transistor, NPN Single

12 V, 100 mA, $f_T = 6.7$ GHz

NSVF6001SB6

This RF transistor is designed for low noise amplifier applications. CPH package is suitable for use under high temperature environment because it has superior heat radiation characteristics. This RF transistor is AEC-Q101 qualified and PPAP capable for automotive applications.

Features

- Input Voltage Operation: up to 32 V
- High Gain: $|S_{21e}|^2 = 11$ dB typ ($f = 1$ GHz)
- High Cut-off Frequency: $f_T = 6.7$ GHz Typ
- Miniature and Thin 6 Pin Package
- High Collector Dissipation (800 mW)
- AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free, Halogen Free and are RoHS Compliant

Typical Applications

- Low Noise Amplifier for FM Radio
- Low Noise Amplifier for TV

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

| Symbol | Parameter | Value | Unit |
|----------------|--|-------------|------------------|
| V_{CBO} | Collector to Base Voltage | 20 | V |
| V_{CEO} | Collector to Emitter Voltage | 12 | V |
| V_{EBO} | Emitter to Base Voltage | 2 | V |
| I_C | Collector Current | 100 | mA |
| P_C | Collector Dissipation (Note 1) | 800 | mW |
| T_j, T_{stg} | Operating Junction and Storage Temperature | -55 to +150 | $^\circ\text{C}$ |

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. Surface mounted on ceramic substrate (250 mm² × 0.8 mm).

Table 1. ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|---------------|------------------------------|--|-----|------|-----|---------------|
| I_{CBO} | Collector Cutoff Current | $V_{CB} = 10$ V, $I_E = 0$ A | – | – | 1.0 | μA |
| I_{EBO} | Emitter Cutoff Current | $V_{EB} = 1$ V, $I_C = 0$ A | – | – | 10 | μA |
| h_{FE1} | DC Current Gain | $V_{CE} = 5$ V, $I_C = 30$ mA | 90 | – | 180 | |
| h_{FE2} | | $V_{CE} = 5$ V, $I_C = 70$ mA | 70 | – | – | |
| f_T | Gain-Bandwidth Product | $V_{CE} = 5$ V, $I_C = 30$ mA | 5 | 6.7 | – | GHz |
| C_{ob} | Output Capacitance | $V_{CB} = 5$ V, $f = 1$ MHz | – | 0.95 | 1.5 | pF |
| C_{re} | Reverse Transfer Capacitance | | – | 0.6 | – | pF |
| $ S_{21e} ^2$ | Forward Transfer Gain | $V_{CE} = 5$ V, $I_C = 30$ mA, $f = 1$ GHz | 9 | 11 | – | dB |
| NF | Noise Figure | $V_{CE} = 5$ V, $I_C = 7$ mA, $f = 1$ GHz | – | 1.1 | 2.0 | dB |

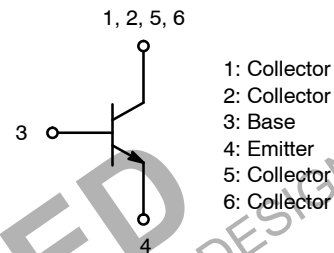
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

2. Pay attention to handling since it is liable to be affected by static electricity due to the high-frequency process adopted.

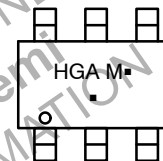


ELECTRICAL CONNECTION

NPN



MARKING DIAGRAM



HGA = Specific Device Code
M = One Digit Data Code
▪ = Pb-Free Marking

ORDERING INFORMATION

| Device | Package | Shipping† |
|----------------|-------------------------------------|------------------------|
| NSVF6001SB6T1G | CPH6 (Pb-Free / Halogen Free) | 3,000 / Tape & Reel |

† For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, [BRD8011/D](http://www.onsemi.com/BRD8011/D).

TYPICAL CHARACTERISTICS

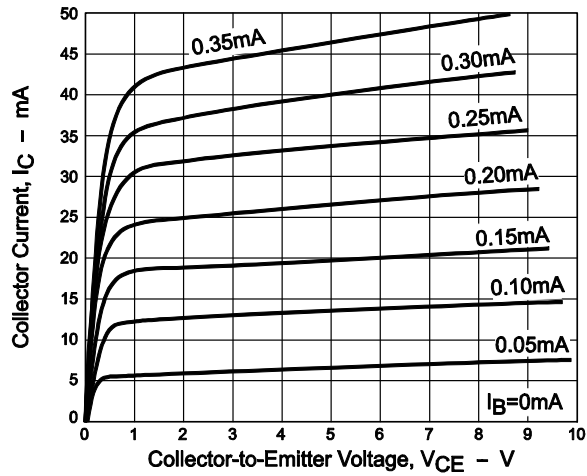


Figure 1. $I_{CE} - V_{CE}$

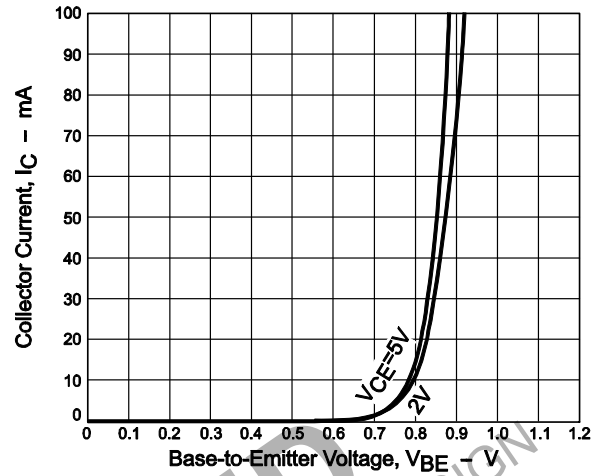


Figure 2. $I_C - V_{BE}$

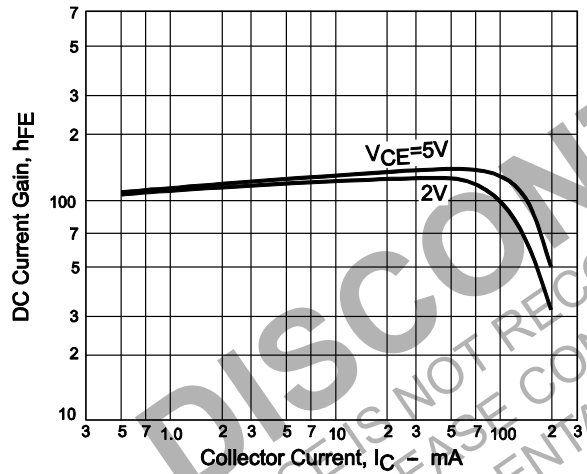


Figure 3. $h_{FE} - I_C$

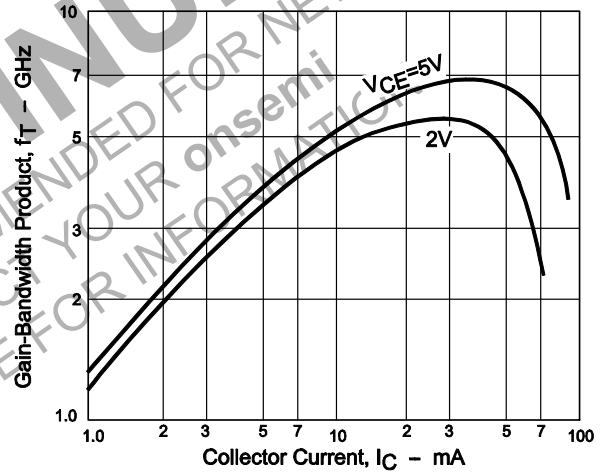


Figure 4. $f_T - I_C$

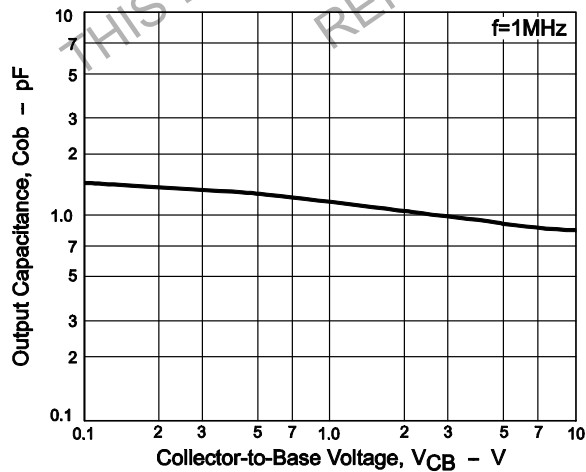


Figure 5. $C_{ob} - V_{CB}$

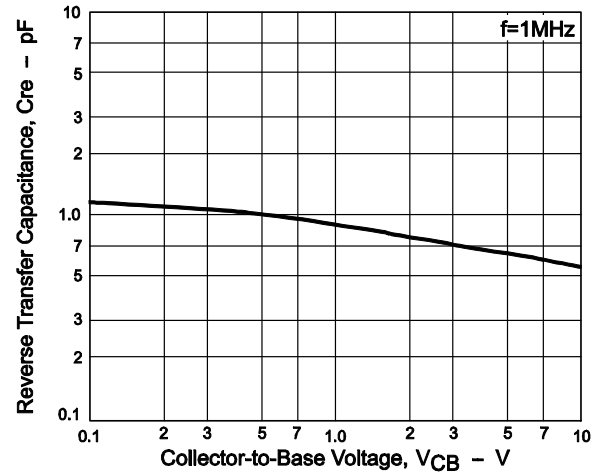


Figure 6. $C_{re} - V_{CB}$

TYPICAL CHARACTERISTICS (continued)

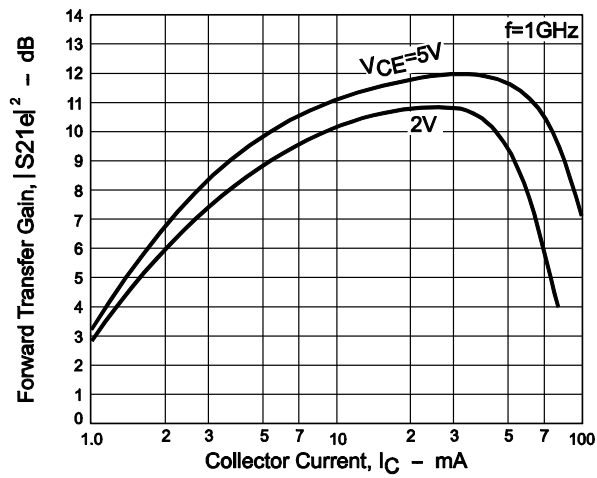


Figure 7. $|S_{21E}|^2 - I_C$

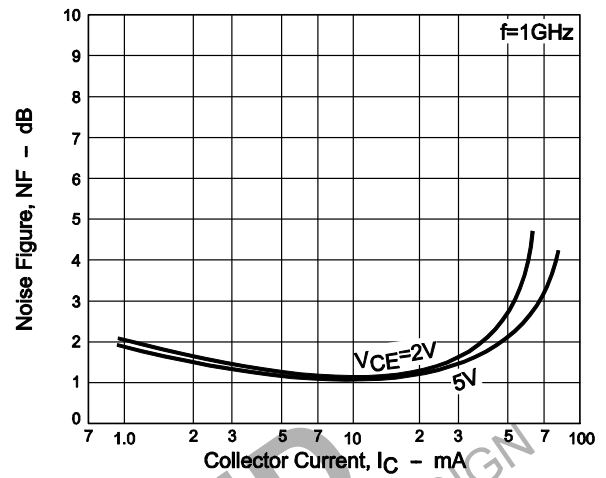


Figure 8. NF - I_C

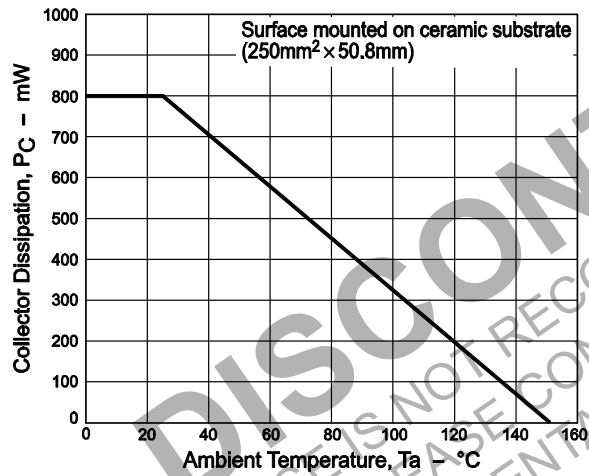


Figure 9. $P_C - T_a$

NSVF6001SB6

S Parameters (Common emitter)

V_{CE}=2V, I_C=5mA, Z_O=50Ω

| Freq(MHz) | S ₁₁ | ∠S ₁₁ | S ₂₁ | ∠S ₂₁ | S ₁₂ | ∠S ₁₂ | S ₂₂ | ∠S ₂₂ |
|-----------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 100 | 0.799 | -48.2 | 12.990 | 147.1 | 0.044 | 65.4 | 0.871 | -26.6 |
| 200 | 0.678 | -83.5 | 9.939 | 125.1 | 0.069 | 51.4 | 0.687 | -42.9 |
| 400 | 0.557 | -124.8 | 6.138 | 101.0 | 0.090 | 42.3 | 0.476 | -57.0 |
| 600 | 0.514 | -147.5 | 4.326 | 87.6 | 0.103 | 41.5 | 0.390 | -63.7 |
| 800 | 0.497 | -161.9 | 3.345 | 77.6 | 0.115 | 43.4 | 0.353 | -69.1 |
| 1000 | 0.488 | -173.8 | 2.740 | 68.9 | 0.129 | 45.3 | 0.337 | -74.6 |
| 1200 | 0.484 | 177.2 | 2.324 | 61.3 | 0.144 | 46.7 | 0.335 | -79.9 |
| 1400 | 0.484 | 169.3 | 2.030 | 54.5 | 0.150 | 47.8 | 0.340 | -85.1 |
| 1600 | 0.483 | 161.1 | 1.804 | 48.3 | 0.177 | 48.3 | 0.346 | -90.6 |
| 1800 | 0.482 | 153.5 | 1.638 | 42.3 | 0.196 | 48.1 | 0.355 | -96.6 |
| 2000 | 0.487 | 146.4 | 1.493 | 36.6 | 0.215 | 47.4 | 0.367 | -102.1 |

V_{CE}=2V, I_C=10mA, Z_O=50Ω

| Freq(MHz) | S ₁₁ | ∠S ₁₁ | S ₂₁ | ∠S ₂₁ | S ₁₂ | ∠S ₁₂ | S ₂₂ | ∠S ₂₂ |
|-----------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 100 | 0.683 | -65.5 | 19.214 | 137.7 | 0.038 | 60.9 | 0.767 | -38.0 |
| 200 | 0.550 | -109.9 | 13.370 | 114.8 | 0.055 | 51.2 | 0.536 | -55.8 |
| 400 | 0.440 | -143.5 | 7.287 | 93.9 | 0.074 | 50.3 | 0.342 | -69.5 |
| 600 | 0.443 | -162.0 | 5.046 | 83.6 | 0.094 | 52.5 | 0.280 | -75.8 |
| 800 | 0.457 | -174.9 | 3.900 | 75.6 | 0.114 | 54.1 | 0.255 | -81.6 |
| 1000 | 0.445 | 172.3 | 3.214 | 67.3 | 0.135 | 55.0 | 0.243 | -87.7 |
| 1200 | 0.427 | 166.4 | 2.681 | 60.6 | 0.156 | 54.5 | 0.245 | -92.6 |
| 1400 | 0.418 | 162.9 | 2.309 | 54.1 | 0.177 | 53.7 | 0.251 | -97.6 |
| 1600 | 0.439 | 160.3 | 1.987 | 49.2 | 0.199 | 52.5 | 0.258 | -102.6 |
| 1800 | 0.486 | 149.1 | 1.850 | 46.2 | 0.221 | 50.6 | 0.269 | -107.7 |
| 2000 | 0.468 | 137.2 | 1.745 | 40.2 | 0.241 | 48.2 | 0.280 | -112.9 |

V_{CE}=2V, I_C=20mA, Z_O=50Ω

| Freq(MHz) | S ₁₁ | ∠S ₁₁ | S ₂₁ | ∠S ₂₁ | S ₁₂ | ∠S ₁₂ | S ₂₂ | ∠S ₂₂ |
|-----------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 100 | 0.540 | -87.3 | 24.533 | 127.8 | 0.032 | 58.3 | 0.646 | -49.3 |
| 200 | 0.469 | -125.4 | 14.920 | 107.9 | 0.045 | 55.2 | 0.411 | -67.4 |
| 400 | 0.437 | -157.2 | 8.009 | 91.0 | 0.067 | 59.1 | 0.256 | -81.3 |
| 600 | 0.430 | -171.6 | 5.453 | 81.5 | 0.091 | 61.2 | 0.210 | -89.3 |
| 800 | 0.428 | 178.4 | 4.148 | 74.0 | 0.116 | 61.3 | 0.197 | -95.4 |
| 1000 | 0.427 | 170.3 | 3.373 | 67.4 | 0.140 | 60.3 | 0.196 | -100.5 |
| 1200 | 0.424 | 163.2 | 2.840 | 61.0 | 0.164 | 58.5 | 0.201 | -105.2 |
| 1400 | 0.424 | 156.9 | 2.484 | 55.3 | 0.189 | 56.7 | 0.208 | -109.8 |
| 1600 | 0.423 | 150.0 | 2.201 | 50.1 | 0.212 | 54.6 | 0.218 | -114.2 |
| 1800 | 0.420 | 144.2 | 1.999 | 44.8 | 0.236 | 52.0 | 0.228 | -119.0 |
| 2000 | 0.422 | 136.2 | 1.825 | 39.5 | 0.257 | 49.0 | 0.238 | -123.8 |

V_{CE}=2V, I_C=30mA, Z_O=50Ω

| Freq(MHz) | S ₁₁ | ∠S ₁₁ | S ₂₁ | ∠S ₂₁ | S ₁₂ | ∠S ₁₂ | S ₂₂ | ∠S ₂₂ |
|-----------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 100 | 0.487 | -101.2 | 26.240 | 123.1 | 0.029 | 58.4 | 0.579 | -54.7 |
| 200 | 0.446 | -136.8 | 15.309 | 104.6 | 0.041 | 58.0 | 0.356 | -72.3 |
| 400 | 0.435 | -163.5 | 8.071 | 89.3 | 0.065 | 62.9 | 0.223 | -86.1 |
| 600 | 0.437 | -176.4 | 5.488 | 80.4 | 0.090 | 64.2 | 0.186 | -94.2 |
| 800 | 0.433 | 174.9 | 4.181 | 73.3 | 0.117 | 63.7 | 0.178 | -100.3 |
| 1000 | 0.435 | 166.8 | 3.388 | 66.7 | 0.142 | 62.3 | 0.180 | -105.7 |
| 1200 | 0.433 | 160.8 | 2.855 | 60.5 | 0.168 | 60.1 | 0.187 | -110.1 |
| 1400 | 0.427 | 154.6 | 2.491 | 54.8 | 0.192 | 57.9 | 0.195 | -114.4 |
| 1600 | 0.432 | 147.9 | 2.211 | 49.7 | 0.217 | 55.4 | 0.205 | -118.8 |
| 1800 | 0.428 | 141.8 | 2.002 | 44.3 | 0.241 | 52.7 | 0.217 | -123.3 |
| 2000 | 0.430 | 134.8 | 1.831 | 39.4 | 0.261 | 49.4 | 0.227 | -127.9 |

NSVF6001SB6

S Parameters (Common emitter)

V_{CE}=5V, I_C=5mA, Z_O=50Ω

| Freq(MHz) | S ₁₁ | ∠S ₁₁ | S ₂₁ | ∠S ₂₁ | S ₁₂ | ∠S ₁₂ | S ₂₂ | ∠S ₂₂ |
|-----------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 100 | 0.822 | -42.5 | 13.211 | 150.0 | 0.035 | 68.2 | 0.901 | -20.9 |
| 200 | 0.684 | -77.8 | 10.639 | 128.5 | 0.056 | 54.8 | 0.743 | -34.0 |
| 400 | 0.516 | -116.3 | 6.681 | 103.3 | 0.076 | 45.3 | 0.548 | -44.9 |
| 600 | 0.481 | -140.7 | 4.776 | 89.6 | 0.087 | 44.9 | 0.467 | -49.9 |
| 800 | 0.477 | -157.6 | 3.714 | 80.0 | 0.098 | 46.3 | 0.433 | -54.2 |
| 1000 | 0.454 | -172.9 | 3.055 | 71.0 | 0.110 | 48.5 | 0.419 | -58.8 |
| 1200 | 0.435 | -179.1 | 2.572 | 63.0 | 0.124 | 50.1 | 0.416 | -64.0 |
| 1400 | 0.431 | -173.9 | 2.213 | 56.2 | 0.138 | 51.7 | 0.419 | -68.9 |
| 1600 | 0.449 | -169.6 | 1.922 | 50.7 | 0.154 | 52.8 | 0.424 | -74.4 |
| 1800 | 0.495 | -157.8 | 1.789 | 46.3 | 0.171 | 52.8 | 0.431 | -80.3 |
| 2000 | 0.482 | -145.3 | 1.669 | 39.6 | 0.188 | 52.4 | 0.440 | -85.7 |

V_{CE}=5V, I_C=10mA, Z_O=50Ω

| Freq(MHz) | S ₁₁ | ∠S ₁₁ | S ₂₁ | ∠S ₂₁ | S ₁₂ | ∠S ₁₂ | S ₂₂ | ∠S ₂₂ |
|-----------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 100 | 0.690 | -57.0 | 20.017 | 141.0 | 0.031 | 64.0 | 0.813 | -29.6 |
| 200 | 0.552 | -93.8 | 14.091 | 118.9 | 0.046 | 54.8 | 0.599 | -43.3 |
| 400 | 0.447 | -133.6 | 8.190 | 97.6 | 0.064 | 52.8 | 0.419 | -51.2 |
| 600 | 0.413 | -154.2 | 5.664 | 86.0 | 0.080 | 55.0 | 0.355 | -54.8 |
| 800 | 0.402 | -167.0 | 4.314 | 77.6 | 0.098 | 56.9 | 0.329 | -58.9 |
| 1000 | 0.399 | -177.7 | 3.519 | 70.1 | 0.116 | 57.8 | 0.320 | -63.5 |
| 1200 | 0.395 | -173.3 | 2.985 | 63.3 | 0.135 | 57.5 | 0.322 | -68.5 |
| 1400 | 0.390 | -165.6 | 2.590 | 57.2 | 0.154 | 57.1 | 0.325 | -73.5 |
| 1600 | 0.396 | -158.1 | 2.293 | 51.4 | 0.173 | 56.1 | 0.332 | -78.8 |
| 1800 | 0.398 | -150.8 | 2.069 | 45.7 | 0.193 | 54.6 | 0.341 | -84.4 |
| 2000 | 0.396 | -143.4 | 1.881 | 40.4 | 0.211 | 52.8 | 0.350 | -90.0 |

V_{CE}=5V, I_C=30mA, Z_O=50Ω

| Freq(MHz) | S ₁₁ | ∠S ₁₁ | S ₂₁ | ∠S ₂₁ | S ₁₂ | ∠S ₁₂ | S ₂₂ | ∠S ₂₂ |
|-----------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 100 | 0.481 | -85.7 | 28.955 | 127.1 | 0.024 | 61.8 | 0.649 | -41.0 |
| 200 | 0.403 | -123.6 | 17.443 | 107.7 | 0.035 | 60.6 | 0.427 | -51.3 |
| 400 | 0.370 | -155.2 | 9.326 | 91.5 | 0.056 | 64.6 | 0.292 | -54.9 |
| 600 | 0.363 | -170.7 | 6.348 | 82.3 | 0.078 | 66.1 | 0.256 | -57.9 |
| 800 | 0.359 | -179.9 | 4.826 | 75.3 | 0.100 | 65.9 | 0.245 | -62.2 |
| 1000 | 0.360 | -171.2 | 3.907 | 68.5 | 0.123 | 64.8 | 0.244 | -67.4 |
| 1200 | 0.360 | -164.4 | 3.288 | 62.7 | 0.145 | 63.1 | 0.249 | -72.7 |
| 1400 | 0.356 | -157.3 | 2.871 | 57.0 | 0.167 | 61.2 | 0.256 | -78.0 |
| 1600 | 0.362 | -151.2 | 2.541 | 51.8 | 0.188 | 59.0 | 0.265 | -83.6 |
| 1800 | 0.361 | -143.6 | 2.290 | 46.5 | 0.210 | 56.5 | 0.274 | -89.4 |
| 2000 | 0.363 | -137.2 | 2.076 | 41.4 | 0.229 | 53.6 | 0.284 | -95.1 |

V_{CE}=5V, I_C=50mA, Z_O=50Ω

| Freq(MHz) | S ₁₁ | ∠S ₁₁ | S ₂₁ | ∠S ₂₁ | S ₁₂ | ∠S ₁₂ | S ₂₂ | ∠S ₂₂ |
|-----------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 100 | 0.426 | -101.6 | 29.939 | 122.4 | 0.021 | 62.6 | 0.587 | -42.4 |
| 200 | 0.389 | -137.3 | 17.324 | 104.3 | 0.032 | 63.2 | 0.385 | -49.1 |
| 400 | 0.379 | -163.4 | 9.137 | 89.5 | 0.053 | 67.9 | 0.277 | -50.5 |
| 600 | 0.378 | -176.3 | 6.195 | 80.8 | 0.076 | 68.9 | 0.252 | -53.4 |
| 800 | 0.375 | -175.0 | 4.700 | 74.0 | 0.098 | 68.3 | 0.245 | -58.2 |
| 1000 | 0.380 | -167.8 | 3.799 | 67.9 | 0.121 | 66.8 | 0.248 | -64.0 |
| 1200 | 0.379 | -161.2 | 3.196 | 61.8 | 0.143 | 64.9 | 0.255 | -69.8 |
| 1400 | 0.378 | -154.9 | 2.787 | 56.1 | 0.165 | 62.8 | 0.262 | -75.4 |
| 1600 | 0.382 | -148.6 | 2.469 | 50.9 | 0.187 | 60.5 | 0.271 | -81.4 |
| 1800 | 0.382 | -142.5 | 2.227 | 45.8 | 0.209 | 57.8 | 0.281 | -87.6 |
| 2000 | 0.385 | -135.6 | 2.027 | 40.7 | 0.228 | 55.0 | 0.291 | -93.3 |

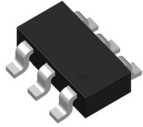
NSVF6001SB6

REVISION HISTORY

| Revision | Description of Changes | Date |
|----------|------------------------|------------|
| 2 | Discontinued Document | 11/12/2025 |

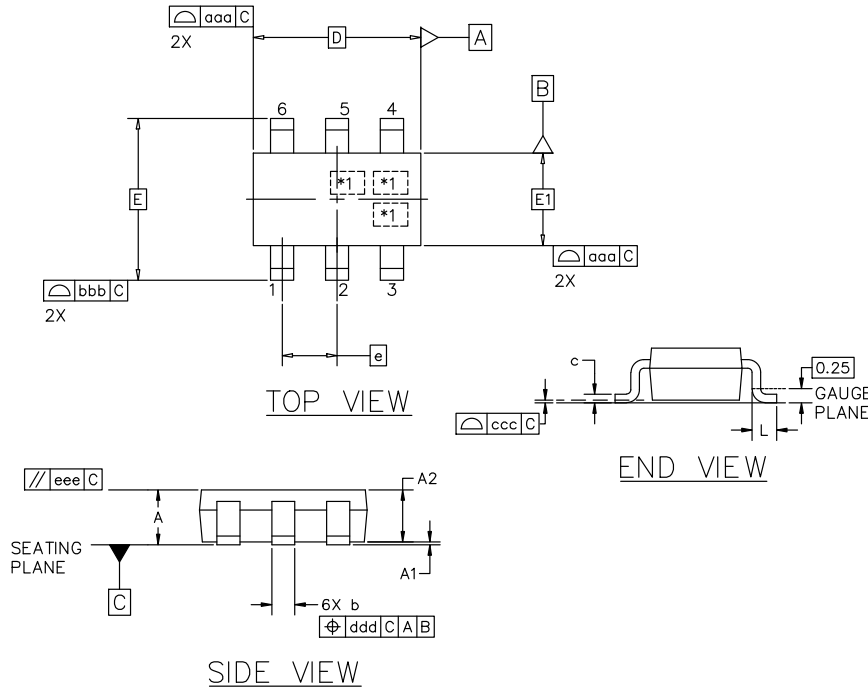
This document has undergone updates prior to the inclusion of this revision history table. The changes tracked here only reflect updates made on the noted approval dates.

DISCONTINUED
THIS DEVICE IS NOT RECOMMENDED FOR NEW DESIGN
PLEASE CONTACT YOUR onsemi
REPRESENTATIVE FOR INFORMATION



CPH6 2.90x1.60x0.90, 0.95P
CASE 318BD
ISSUE A

DATE 20 SEPT 2024

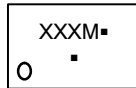


| MILLIMETERS | | | |
|-----------------------------|----------|------|------|
| DIM | MIN | NOM | MAX |
| A | 0.85 | 0.95 | 1.05 |
| A1 | 0.00 | 0.05 | 0.10 |
| A2 | 0.85 | 0.90 | 0.95 |
| b | 0.30 | 0.40 | 0.50 |
| c | 0.10 | 0.15 | 0.25 |
| D | 2.90 BSC | | |
| E | 2.80 BSC | | |
| E1 | 1.60 BSC | | |
| e | 0.95 BSC | | |
| L | 0.10 | 0.20 | 0.30 |
| TOLERANCE FORM AND POSITION | | | |
| aaa | 0.10 | | |
| bbb | 0.15 | | |
| ccc | 0.05 | | |
| ddd | 0.10 | | |
| eee | 0.10 | | |

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
2. CONTROLLING DIMENSION: MILLIMETERS
3. *1 IS FOR LOT INDICATION

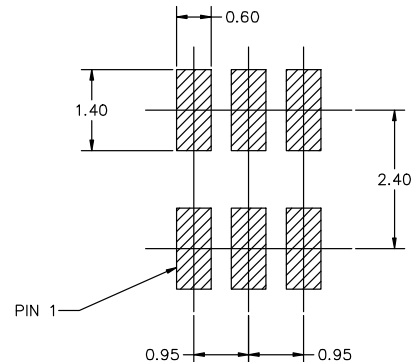
GENERIC
MARKING DIAGRAM*



XXX = Specific Device Code
M = Date Code
▪ = Pb-Free Package

(Note: Microdot may be in either location)

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present. Some products may not follow the Generic Marking.



RECOMMENDED MOUNTING FOOTPRINT

* For additional information on our Pb-Free strategy and soldering details, please download the onsemi Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

| | | |
|------------------|----------------------------|--|
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| DESCRIPTION: | CPH6 2.90x1.60x0.90, 0.95P | PAGE 1 OF 1 |

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