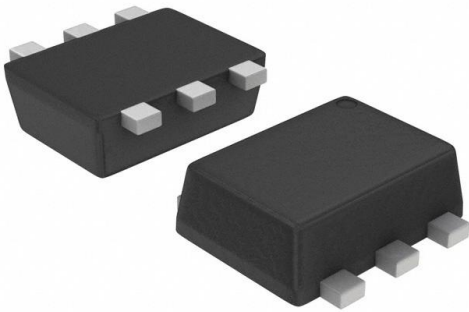


# NSBC144EPDXV6T1 Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	NSBC144EPDXV6T1-DG
Manufacturer	<a href="#">onsemi</a>
Manufacturer Product Number	NSBC144EPDXV6T1
Description	TRANS BR NPN/PNP DUAL 50V SOT563
Detailed Description	Pre-Biased Bipolar Transistor (BJT)



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.



## Purchase and inquiry

Manufacturer Product Number:

NSBC144EPDXV6T1

Series:

\*

Base Product Number:

NSBC144

Manufacturer:

onsemi

Product Status:

Obsolete

## Environmental & Export classification

RoHS Status:

RoHS non-compliant

REACH Status:

REACH Unaffected

HTSUS:

8541.21.0095

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

# NSBC114EPDXV6T1, NSBC114EPDXV6T5

## Dual Bias Resistor Transistors

### NPN and PNP Silicon Surface Mount Transistors with Monolithic Bias Resistor Network

The BRT (Bias Resistor Transistor) contains a single transistor with a monolithic bias network consisting of two resistors; a series base resistor and a base-emitter resistor. These digital transistors are designed to replace a single device and its external resistor bias network. The BRT eliminates these individual components by integrating them into a single device. In the NSBC114EPDXV6T1 series, two complementary BRT devices are housed in the SOT-563 package which is ideal for low power surface mount applications where board space is at a premium.

#### Features

- Simplifies Circuit Design
- Reduces Board Space
- Reduces Component Count
- Available in 8 mm, 7 inch Tape and Reel
- Pb-Free Packages are Available

**MAXIMUM RATINGS** ( $T_A = 25^\circ\text{C}$  unless otherwise noted, common for  $Q_1$  and  $Q_2$ , - minus sign for  $Q_1$  (PNP) omitted)

Rating	Symbol	Value	Unit
Collector-Base Voltage	$V_{CBO}$	50	Vdc
Collector-Emitter Voltage	$V_{CEO}$	50	Vdc
Collector Current	$I_C$	100	mAdc

#### THERMAL CHARACTERISTICS

Characteristic (One Junction Heated)	Symbol	Max	Unit
Total Device Dissipation $T_A = 25^\circ\text{C}$ (Note 1) Derate above $25^\circ\text{C}$ (Note 1)	$P_D$	357 2.9	mW mW/ $^\circ\text{C}$
Thermal Resistance (Note 1) Junction-to-Ambient	$R_{\theta JA}$	350	$^\circ\text{C}/\text{W}$
Characteristic (Both Junctions Heated)	Symbol	Max	Unit
Total Device Dissipation $T_A = 25^\circ\text{C}$ (Note 1) Derate above $25^\circ\text{C}$ (Note 1)	$P_D$	500 4.0	mW mW/ $^\circ\text{C}$
Thermal Resistance (Note 1) Junction-to-Ambient	$R_{\theta JA}$	250	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature	$T_J, T_{stg}$	-55 to +150	$^\circ\text{C}$

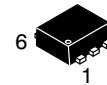
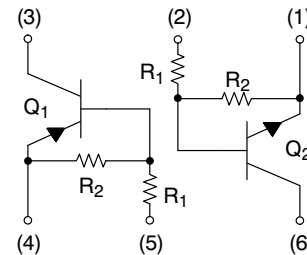
Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. FR-4 @ Minimum Pad



**ON Semiconductor**<sup>®</sup>

<http://onsemi.com>



**SOT-563  
CASE 463A  
PLASTIC**

#### MARKING DIAGRAM



xx = Specific Device Code  
(see table on page 2)  
M = Date Code  
■ = Pb-Free Package

(Note: Microdot may be in either location)

#### ORDERING INFORMATION

Device	Package	Shipping <sup>†</sup>
NSBC114EPDXV6T1	SOT-563	4 mm pitch 4000/Tape & Reel
NSBC114EPDXV6T5	SOT-563	2 mm pitch 8000/Tape & Reel

<sup>†</sup>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.

#### DEVICE MARKING INFORMATION

See specific marking information in the device marking table on page 2 of this data sheet.

**NSBC114EPDXV6T1, NSBC114EPDXV6T5****DEVICE MARKING AND RESISTOR VALUES**

Device	Package	Marking	R1 (k $\Omega$ )	R2 (k $\Omega$ )
NSBC114EPDXV6T1	SOT-563	11	10	10
NSBC124EPDXV6T1	SOT-563	12	22	22
NSBC144EPDXV6T1	SOT-563	13	47	47
NSBC114YPDXV6T1	SOT-563	14	10	47
NSBC114TPDXV6T1 (Note 2)	SOT-563	15	10	$\infty$
NSBC143TPDXV6T1 (Note 2)	SOT-563	16	4.7	$\infty$
NSBC113EPDXV6T1 (Note 2)	SOT-563	30	1.0	1.0
NSBC123EPDXV6T1 (Note 2)	SOT-563	31	2.2	2.2
NSBC143EPDXV6T1 (Note 2)	SOT-563	32	4.7	4.7
NSBC143ZPDXV6T1 (Note 2)	SOT-563	33	4.7	47
NSBC124XPDXV6T1 (Note 2)	SOT-563	34	22	47
NSBC123JPDXV6T1 (Note 2)	SOT-563	35	2.2	47

**ELECTRICAL CHARACTERISTICS**(T<sub>A</sub> = 25°C unless otherwise noted, common for Q<sub>1</sub> and Q<sub>2</sub>, - minus sign for Q<sub>1</sub> (PNP) omitted)

Characteristic	Symbol	Min	Typ	Max	Unit
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**OFF CHARACTERISTICS**

Collector-Base Cutoff Current (V <sub>CB</sub> = 50 V, I <sub>E</sub> = 0)	I <sub>CBO</sub>	-	-	100	nAdc
Collector-Emitter Cutoff Current (V <sub>CE</sub> = 50 V, I <sub>B</sub> = 0)	I <sub>CEO</sub>	-	-	500	nAdc
Emitter-Base Cutoff Current (V <sub>EB</sub> = 6.0 V, I <sub>C</sub> = 0)	I <sub>EBO</sub>	-	-	0.5	mAdc
	NSBC114EPDXV6T1, G	-	-	0.2	
	NSBC124EPDXV6T1, G	-	-	0.1	
	NSBC144EPDXV6T1, G	-	-	0.2	
	NSBC114YPDXV6T1, G	-	-	0.9	
	NSBC114TPDXV6T1, G	-	-	1.9	
	NSBC143TPDXV6T1, G	-	-	4.3	
	NSBC113EPDXV6T1, G	-	-	2.3	
	NSBC123EPDXV6T1, G	-	-	1.5	
	NSBC143EPDXV6T1, G	-	-	0.18	
	NSBC143ZPDXV6T1, G	-	-	0.13	
	NSBC124XPDXV6T1, G	-	-	0.2	
	NSBC123JPDXV6T1, G	-	-		
Collector-Base Breakdown Voltage (I <sub>C</sub> = 10 $\mu$ A, I <sub>E</sub> = 0)	V <sub>(BR)CBO</sub>	50	-	-	Vdc
Collector-Emitter Breakdown Voltage (Note 3) (I <sub>C</sub> = 2.0 mA, I <sub>B</sub> = 0)	V <sub>(BR)CEO</sub>	50	-	-	Vdc

**ON CHARACTERISTICS** (Note 3)

DC Current Gain (V <sub>CE</sub> = 10 V, I <sub>C</sub> = 5.0 mA)	h <sub>FE</sub>	35	60	-	
	NSBC114EPDXV6T1, G	60	100	-	
	NSBC124EPDXV6T1, G	80	140	-	
	NSBC144EPDXV6T1, G	80	140	-	
	NSBC114YPDXV6T1, G	160	350	-	
	NSBC114TPDXV6T1, G	160	350	-	
	NSBC143TPDXV6T1, G	3.0	5.0	-	
	NSBC113EPDXV6T1, G	8.0	15	-	
	NSBC123EPDXV6T1, G	15	30	-	
	NSBC143EPDXV6T1, G	80	200	-	
	NSBC143ZPDXV6T1, G	80	150	-	
	NSBC124XPDXV6T1, G	80	140	-	
	NSBC123JPDXV6T1, G				

2. New resistor combinations. Updated curves to follow in subsequent data sheets.

3. Pulse Test: Pulse Width < 300  $\mu$ s, Duty Cycle < 2.0%

**NSBC114EPDXV6T1, NSBC114EPDXV6T5****ELECTRICAL CHARACTERISTICS**(T<sub>A</sub> = 25°C unless otherwise noted, common for Q<sub>1</sub> and Q<sub>2</sub>, - minus sign for Q<sub>1</sub> (PNP) omitted)

Characteristic	Symbol	Min	Typ	Max	Unit
<b>ON CHARACTERISTICS</b> (Note 3)					
Collector-Emitter Saturation Voltage (I <sub>C</sub> = 10 mA, I <sub>B</sub> = 0.3 mA)	V <sub>CE(sat)</sub>	-	-	0.25	Vdc
NSBC114EPDXV6T1, G		-	-	0.25	
NSBC124EPDXV6T1, G		-	-	0.25	
NSBC144EPDXV6T1, G		-	-	0.25	
NSBC114YPDXV6T1, G		-	-	0.25	
NSBC143TPDXV6T1, G		-	-	0.25	
NSBC123JPDXV6T1, G		-	-	0.25	
(I <sub>C</sub> = 10 mA, I <sub>B</sub> = 5 mA)		-	-	0.25	
NSBC113EPDXV6T1, G		-	-	0.25	
NSBC123EPDXV6T1, G		-	-	0.25	
(I <sub>C</sub> = 10 mA, I <sub>B</sub> = 1 mA)		-	-	0.25	
NSBC114TPDXV6T1, G		-	-	0.25	
NSBC143EPDXV6T1, G		-	-	0.25	
NSBC143ZPDXV6T1, G		-	-	0.25	
NSBC124XPDXV6T1, G		-	-	0.25	
Output Voltage (on) (V <sub>CC</sub> = 5.0 V, V <sub>B</sub> = 2.5 V, R <sub>L</sub> = 1.0 kΩ)	V <sub>OL</sub>	-	-	0.2	Vdc
NSBC114EPDXV6T1, G		-	-	0.2	
NSBC124EPDXV6T1, G		-	-	0.2	
NSBC114YPDXV6T1, G		-	-	0.2	
NSBC114TPDXV6T1, G		-	-	0.2	
NSBC143TPDXV6T1, G		-	-	0.2	
NSBC113EPDXV6T1, G		-	-	0.2	
NSBC123EPDXV6T1, G		-	-	0.2	
NSBC143EPDXV6T1, G		-	-	0.2	
NSBC143ZPDXV6T1, G		-	-	0.2	
NSBC124XPDXV6T1, G		-	-	0.2	
NSBC123JPDXV6T1, G		-	-	0.2	
(V <sub>CC</sub> = 5.0 V, V <sub>B</sub> = 3.5 V, R <sub>L</sub> = 1.0 kΩ)		-	-	0.2	
NSBC144EPDXV6T1, G		-	-	0.2	
Output Voltage (off) (V <sub>CC</sub> = 5.0 V, V <sub>B</sub> = 0.5 V, R <sub>L</sub> = 1.0 kΩ)		V <sub>OH</sub>	4.9	-	
NSBC114EPDXV6T1, G	4.9		-	-	
NSBC124EPDXV6T1, G	4.9		-	-	
NSBC144EPDXV6T1, G	4.9		-	-	
NSBC114YPDXV6T1, G	4.9		-	-	
NSBC143TPDXV6T1, G	4.9		-	-	
NSBC143ZPDXV6T1, G	4.9		-	-	
NSBC124XPDXV6T1, G	4.9		-	-	
NSBC123JPDXV6T1, G	4.9		-	-	
(V <sub>CC</sub> = 5.0 V, V <sub>B</sub> = 0.050 V, R <sub>L</sub> = 1.0 kΩ)	4.9		-	-	
NSBC113EPDXV6T1, G	4.9		-	-	
(V <sub>CC</sub> = 5.0 V, V <sub>B</sub> = 0.25 V, R <sub>L</sub> = 1.0 kΩ)	4.9		-	-	
NSBC114TPDXV6T1, G	4.9		-	-	
NSBC123EPDXV6T1, G	4.9		-	-	
NSBC143EPDXV6T1, G	4.9		-	-	

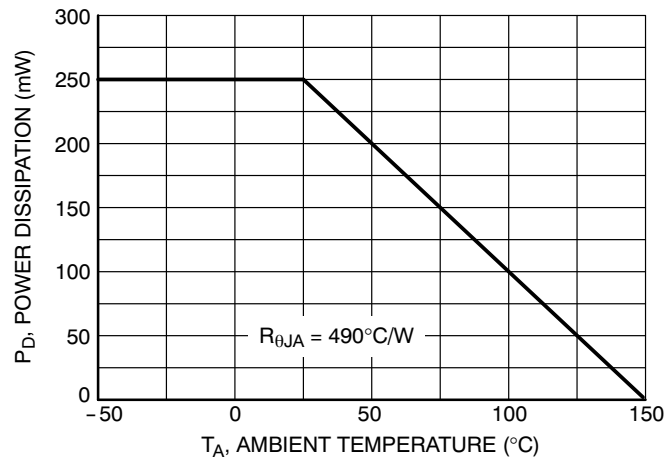
2. New resistor combinations. Updated curves to follow in subsequent data sheets.

3. Pulse Test: Pulse Width &lt; 300 μs, Duty Cycle &lt; 2.0%

**NSBC114EPDXV6T1, NSBC114EPDXV6T5****ELECTRICAL CHARACTERISTICS**(T<sub>A</sub> = 25°C unless otherwise noted, common for Q<sub>1</sub> and Q<sub>2</sub>, - minus sign for Q<sub>1</sub> (PNP) omitted)

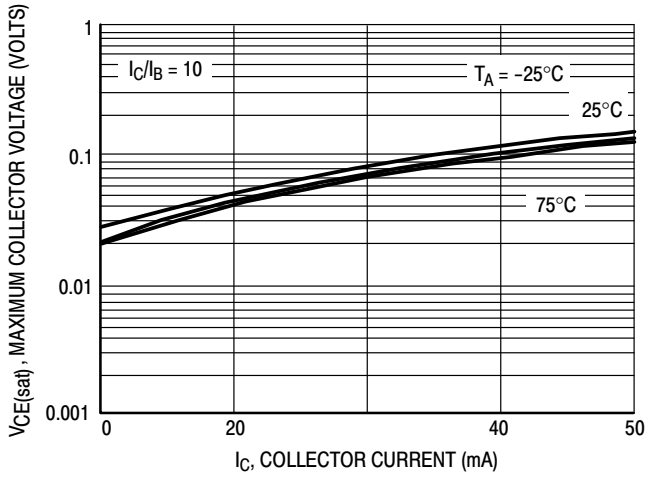
Characteristic	Symbol	Min	Typ	Max	Unit	
<b>ON CHARACTERISTICS</b> (Note 3)						
Input Resistor	NSBC114EPDXV6T1, G	R1	7.0	10	13	k Ω
	NSBC124EPDXV6T1, G		15.4	22	28.6	
	NSBC144EPDXV6T1, G		32.9	47	61.1	
	NSBC114YPDXV6T1, G		7.0	10	13	
	NSBC114TPDXV6T1, G		7.0	10	13	
	NSBC143TPDXV6T1, G		3.3	4.7	6.1	
	NSBC113EPDXV6T1, G		0.7	1.0	1.3	
	NSBC123EPDXV6T1, G		1.5	2.2	2.9	
	NSBC143EPDXV6T1, G		3.3	4.7	6.1	
	NSBC143ZPDXV6T1, G		3.3	4.7	6.1	
	NSBC124XPDXV6T1, G		15.4	22	28.6	
	NSBC123JPDXV6T1, G		1.54	2.2	2.86	
	Resistor Ratio	NSBC114EPDXV6T1, G	R1/R2	0.8	1.0	
NSBC124EPDXV6T1, G			0.8	1.0	1.2	
NSBC144EPDXV6T1, G			0.8	1.0	1.2	
NSBC114YPDXV6T1, G			0.17	0.21	0.25	
NSBC114TPDXV6T1, G			-	-	-	
NSBC143TPDXV6T1, G			-	-	-	
NSBC113EPDXV6T1, G			0.8	1.0	1.2	
NSBC123EPDXV6T1, G			0.8	1.0	1.2	
NSBC143EPDXV6T1, G			0.8	1.0	1.2	
NSBC143ZPDXV6T1, G			0.055	0.1	0.185	
NSBC124XPDXV6T1, G			0.38	0.47	0.56	
NSBC123JPDXV6T1, G			0.038	0.047	0.056	

2. New resistor combinations. Updated curves to follow in subsequent data sheets.
3. Pulse Test: Pulse Width < 300 μs, Duty Cycle < 2.0%

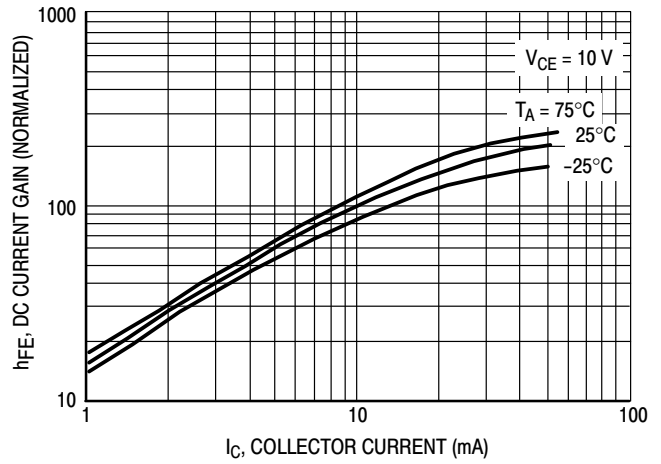
**Figure 1. Derating Curve**

**NSBC114EPDXV6T1, NSBC114EPDXV6T5**

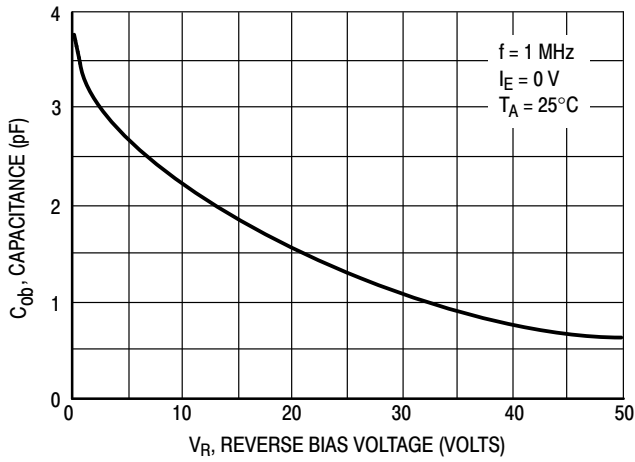
**TYPICAL ELECTRICAL CHARACTERISTICS - NSBC114EPDXV6T1 NPN TRANSISTOR**



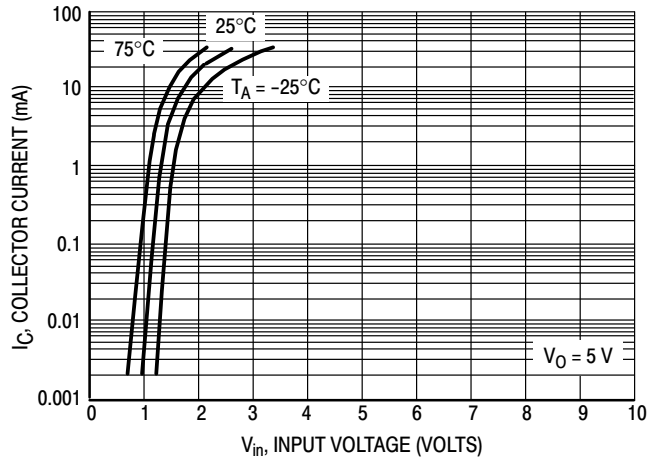
**Figure 2.  $V_{CE(sat)}$  versus  $I_C$**



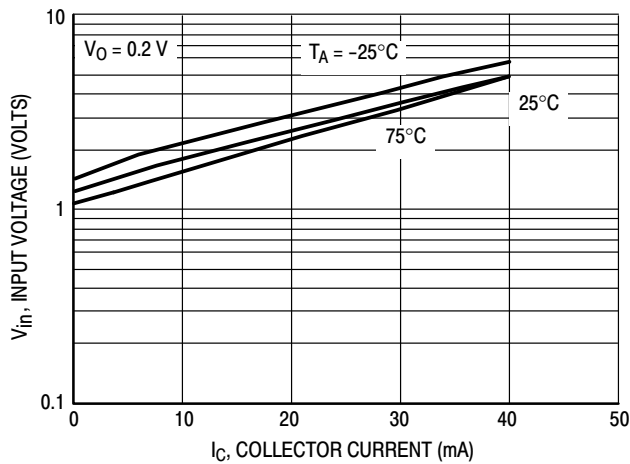
**Figure 3. DC Current Gain**



**Figure 4. Output Capacitance**



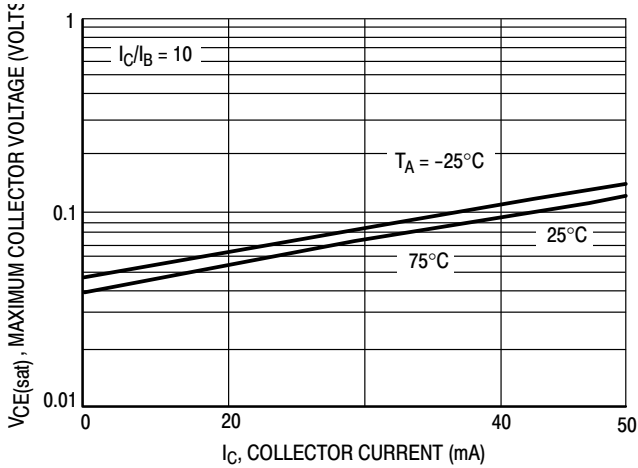
**Figure 5. Output Current versus Input Voltage**



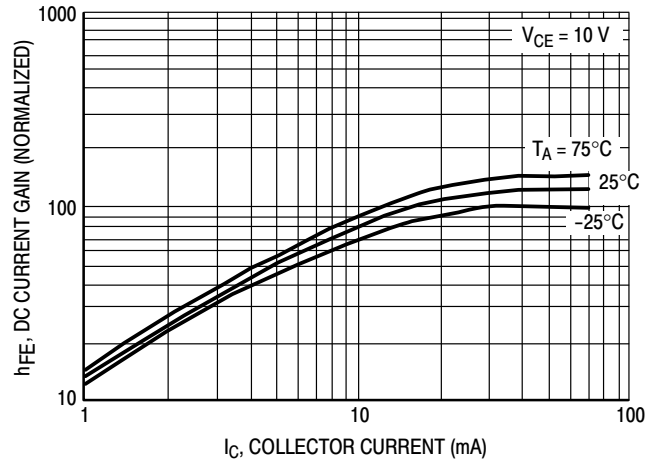
**Figure 6. Input Voltage versus Output Current**

**NSBC114EPDXV6T1, NSBC114EPDXV6T5**

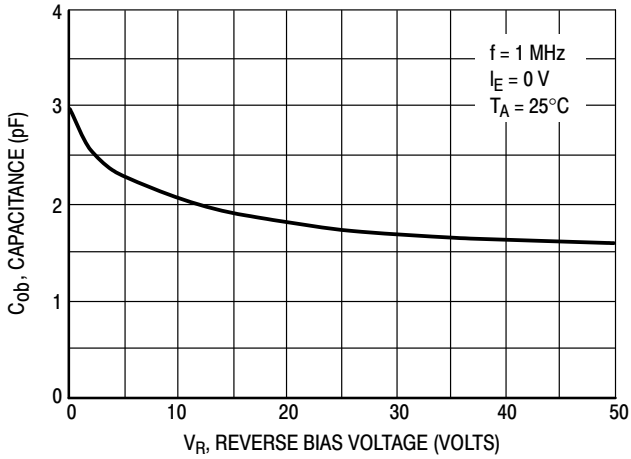
**TYPICAL ELECTRICAL CHARACTERISTICS - NSBC114EPDXV6T1 PNP TRANSISTOR**



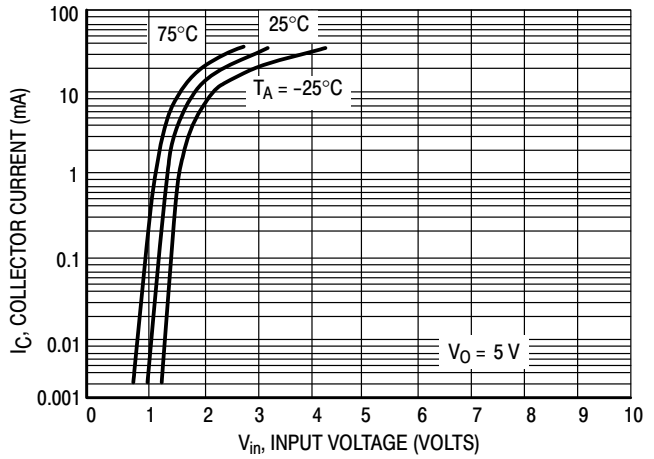
**Figure 7.  $V_{CE(sat)}$  versus  $I_C$**



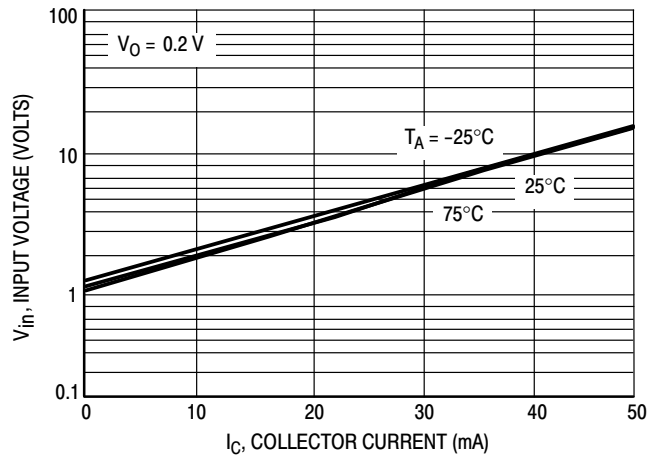
**Figure 8. DC Current Gain**



**Figure 9. Output Capacitance**



**Figure 10. Output Current versus Input Voltage**

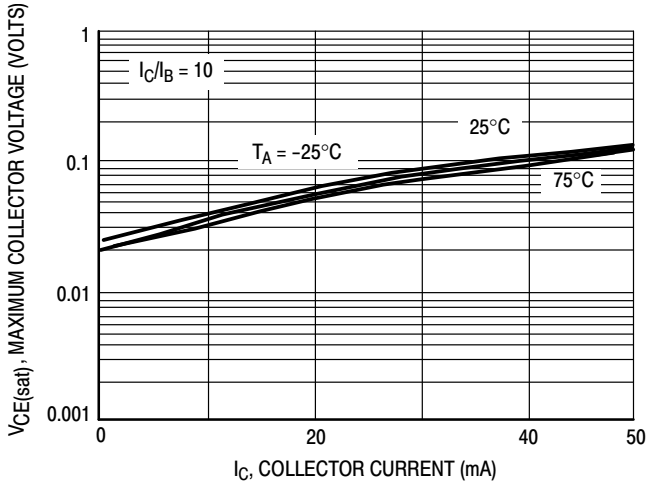


**Figure 11. Input Voltage versus Output Current**

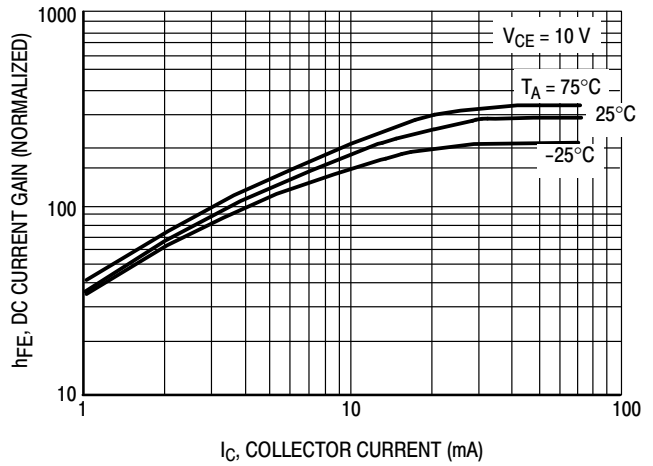


**NSBC114EPDXV6T1, NSBC114EPDXV6T5**

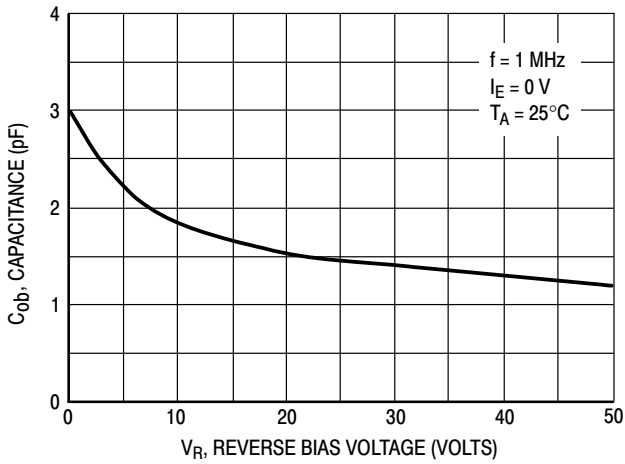
**TYPICAL ELECTRICAL CHARACTERISTICS - NSBC124EPDXV6T1 NPN TRANSISTOR**



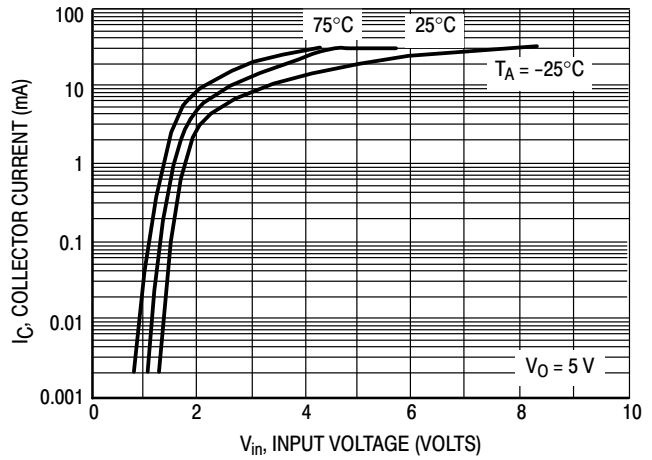
**Figure 12.  $V_{CE(sat)}$  versus  $I_C$**



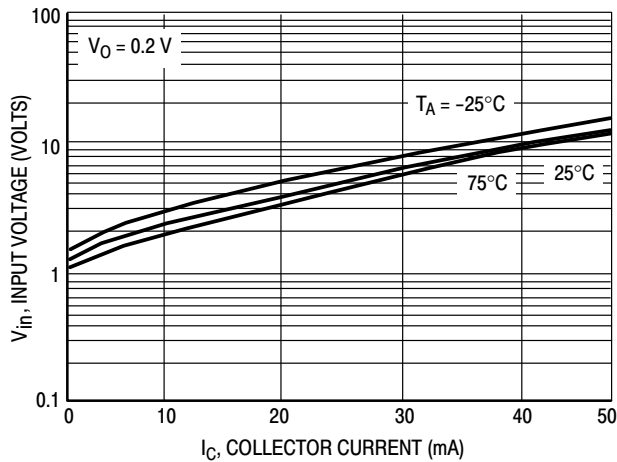
**Figure 13. DC Current Gain**



**Figure 14. Output Capacitance**



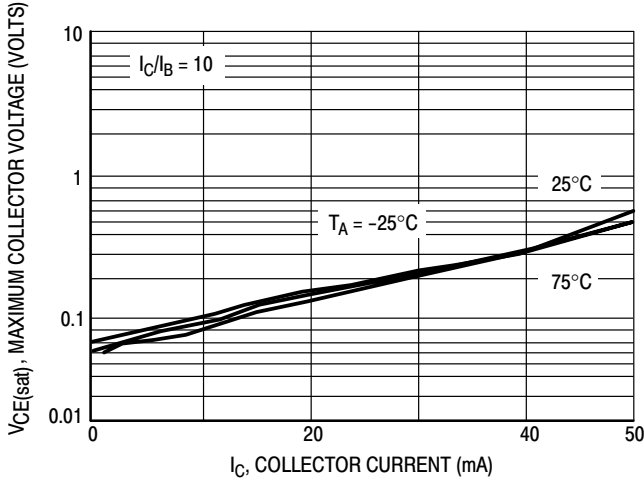
**Figure 15. Output Current versus Input Voltage**



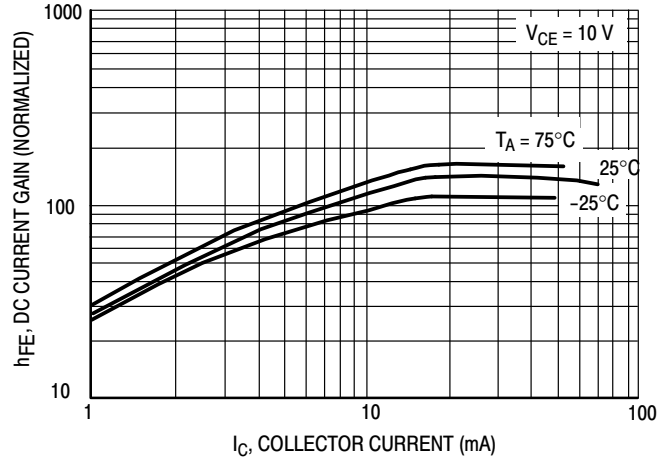
**Figure 16. Input Voltage versus Output Current**

**NSBC114EPDXV6T1, NSBC114EPDXV6T5**

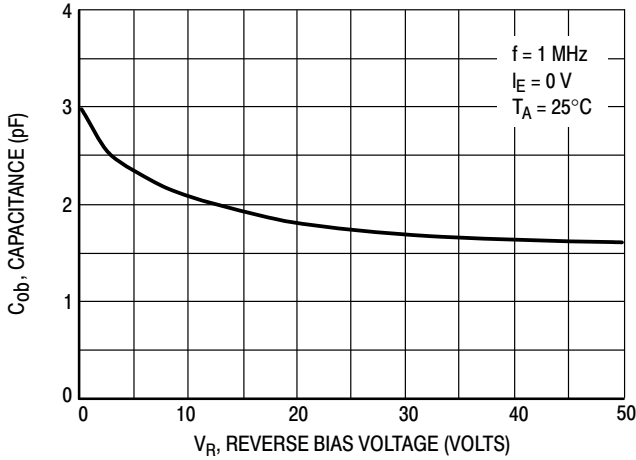
**TYPICAL ELECTRICAL CHARACTERISTICS - NSBC124EPDXV6T1 PNP TRANSISTOR**



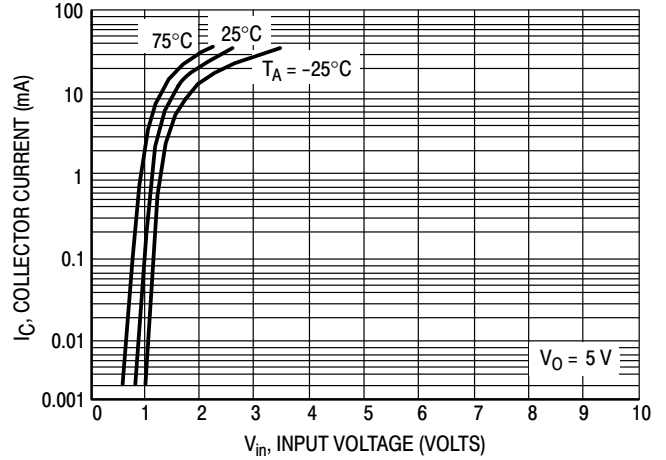
**Figure 17.  $V_{CE(sat)}$  versus  $I_C$**



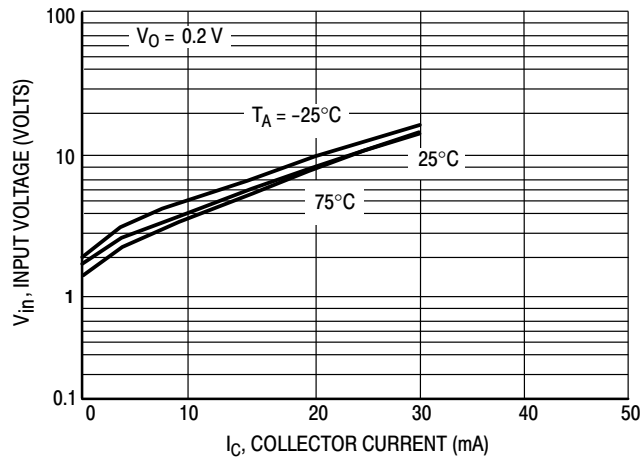
**Figure 18. DC Current Gain**



**Figure 19. Output Capacitance**



**Figure 20. Output Current versus Input Voltage**



**Figure 21. Input Voltage versus Output Current**

# NSBC114EPDXV6T1, NSBC114EPDXV6T5

## TYPICAL ELECTRICAL CHARACTERISTICS - NSBC144EPDXV6T1 NPN TRANSISTOR

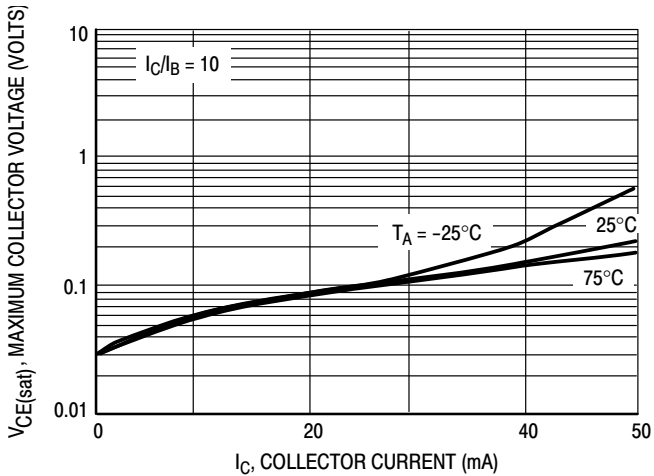


Figure 22.  $V_{CE(sat)}$  versus  $I_C$

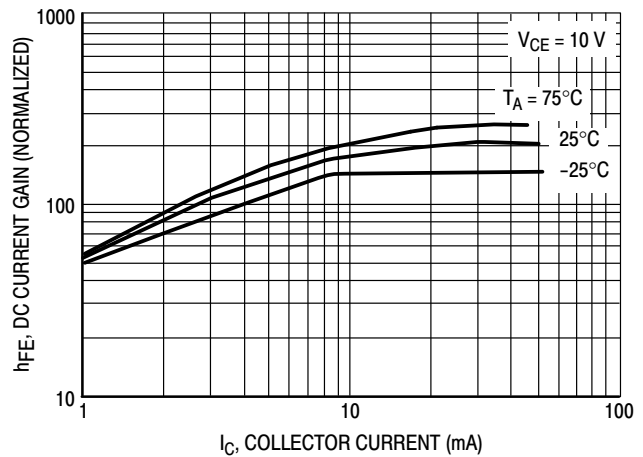


Figure 23. DC Current Gain

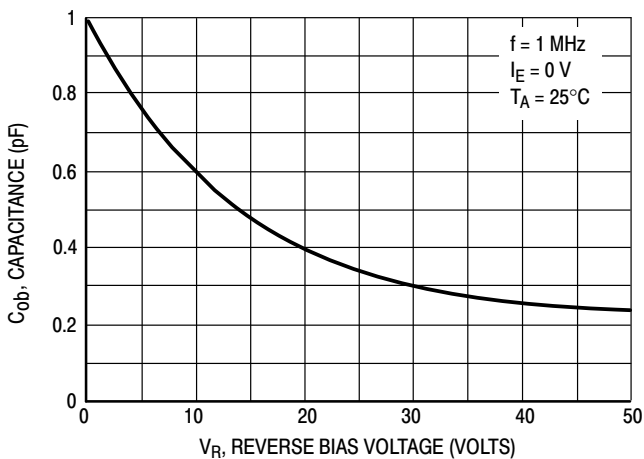


Figure 24. Output Capacitance

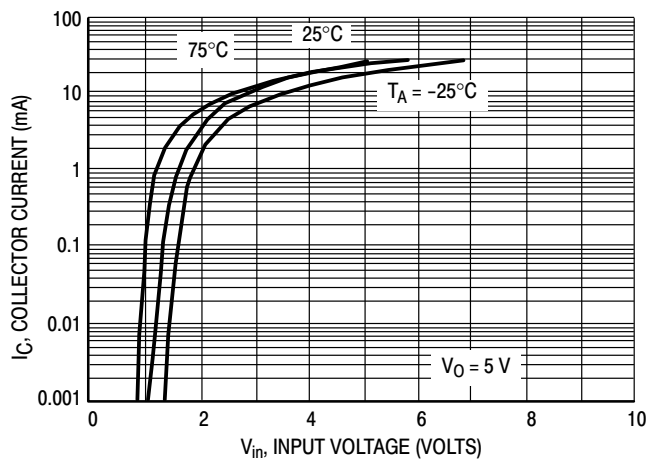


Figure 25. Output Current versus Input Voltage

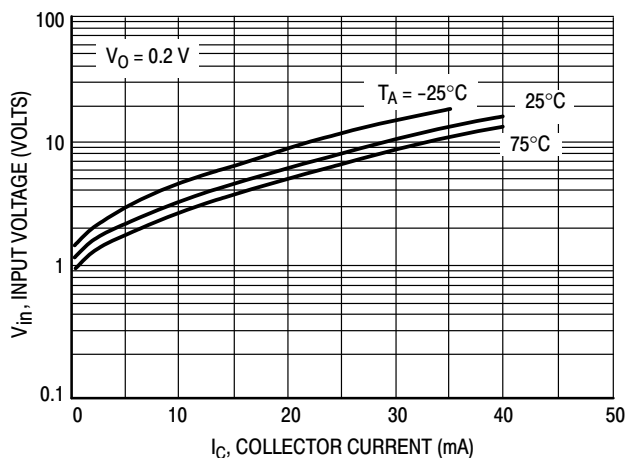
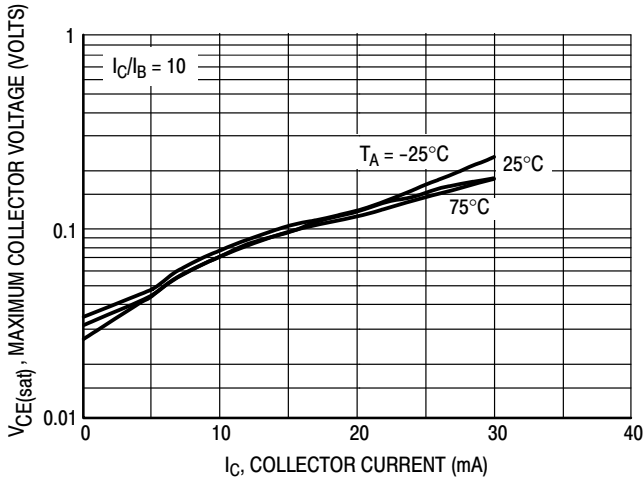


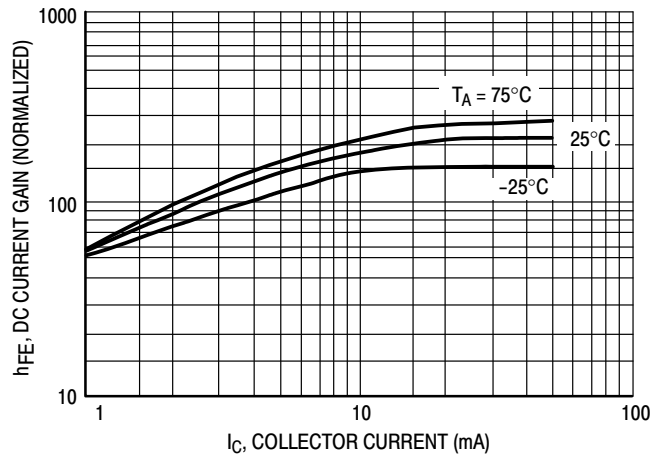
Figure 26. Input Voltage versus Output Current

**NSBC114EPDXV6T1, NSBC114EPDXV6T5**

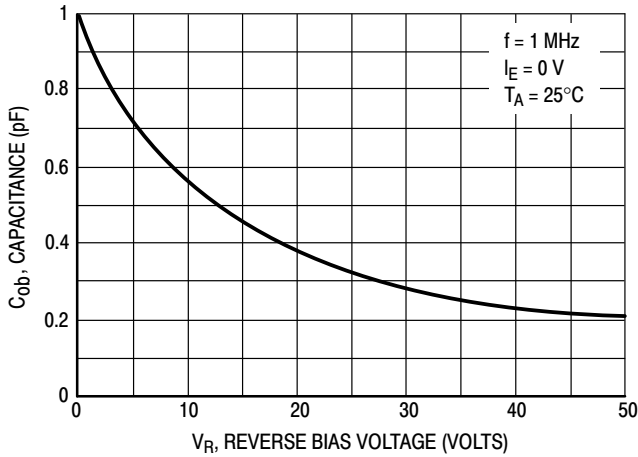
**TYPICAL ELECTRICAL CHARACTERISTICS - NSBC144EPDXV6T1 PNP TRANSISTOR**



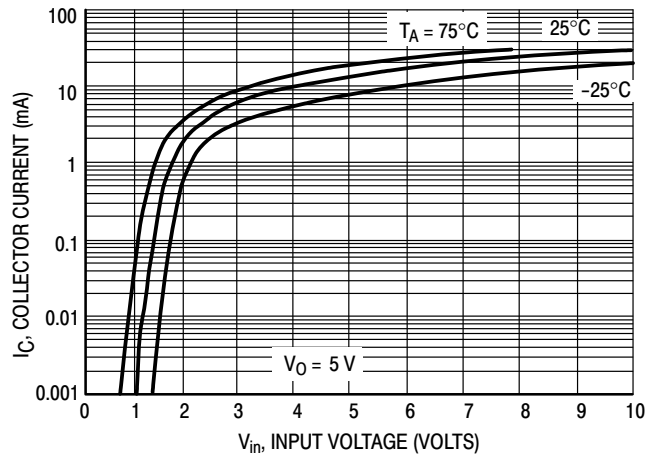
**Figure 27.  $V_{CE(sat)}$  versus  $I_C$**



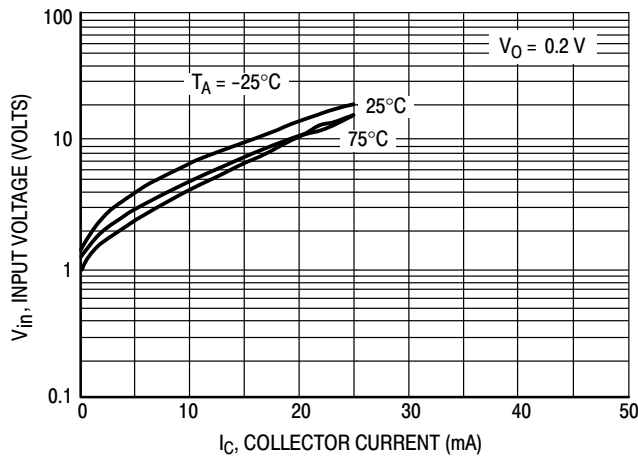
**Figure 28. DC Current Gain**



**Figure 29. Output Capacitance**



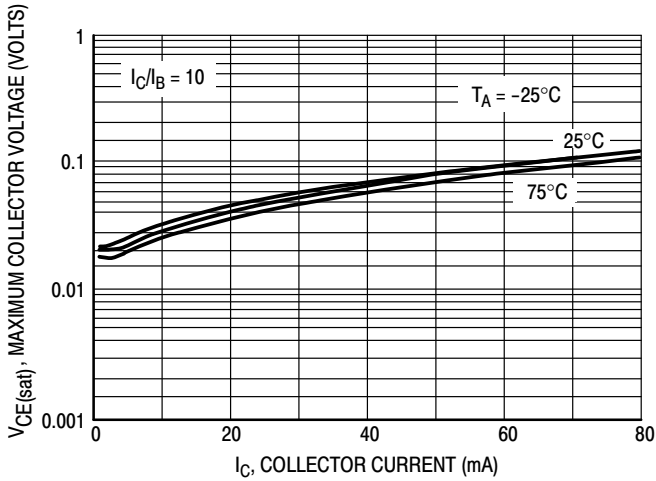
**Figure 30. Output Current versus Input Voltage**



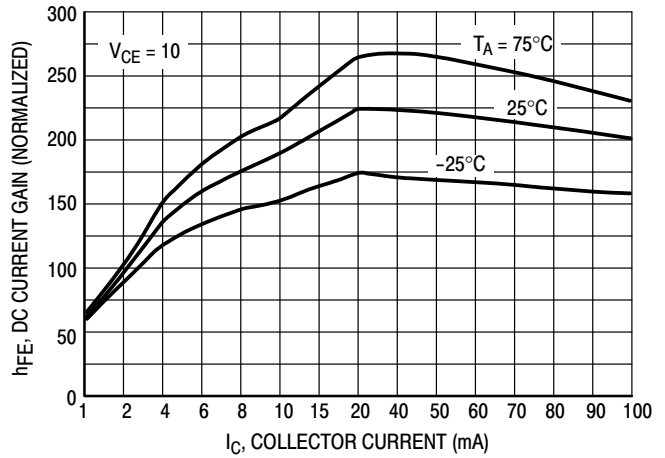
**Figure 31. Input Voltage versus Output Current**

**NSBC114EPDXV6T1, NSBC114EPDXV6T5**

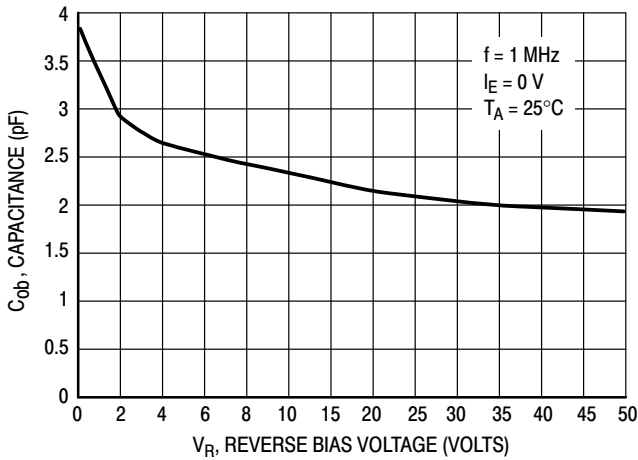
**TYPICAL ELECTRICAL CHARACTERISTICS - NSBC114YPDXV6T1 NPN TRANSISTOR**



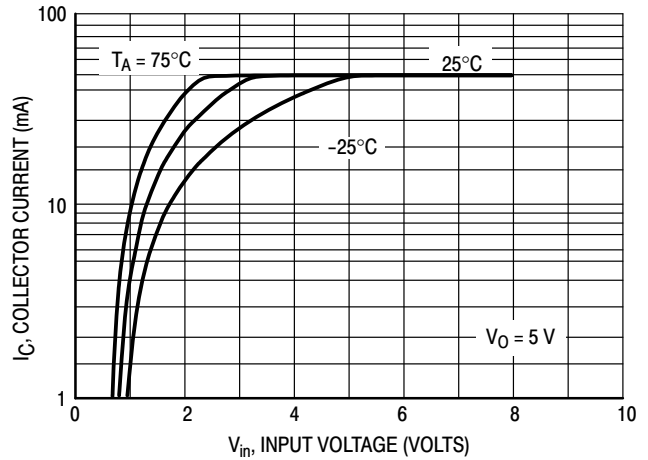
**Figure 32.  $V_{CE(sat)}$  versus  $I_C$**



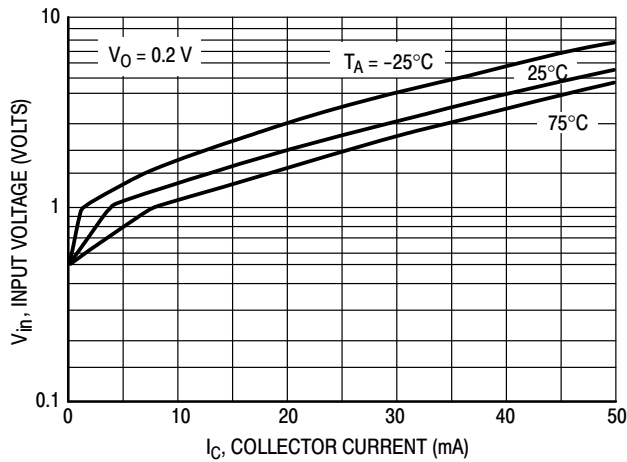
**Figure 33. DC Current Gain**



**Figure 34. Output Capacitance**



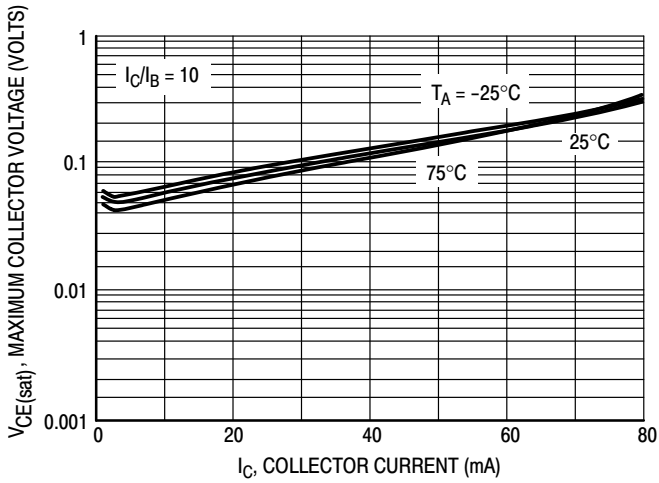
**Figure 35. Output Current versus Input Voltage**



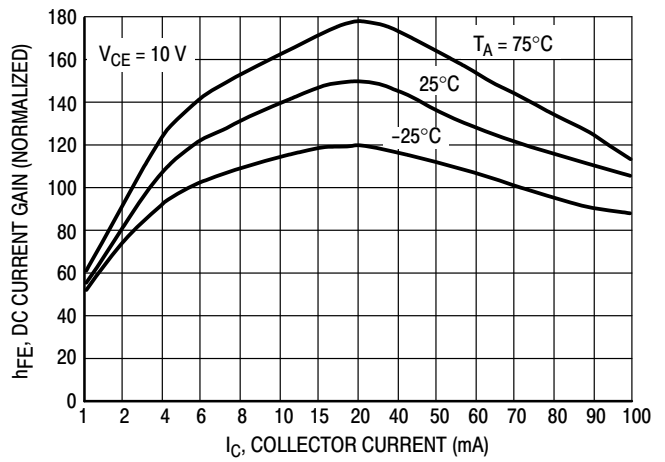
**Figure 36. Input Voltage versus Output Current**

**NSBC114EPDXV6T1, NSBC114EPDXV6T5**

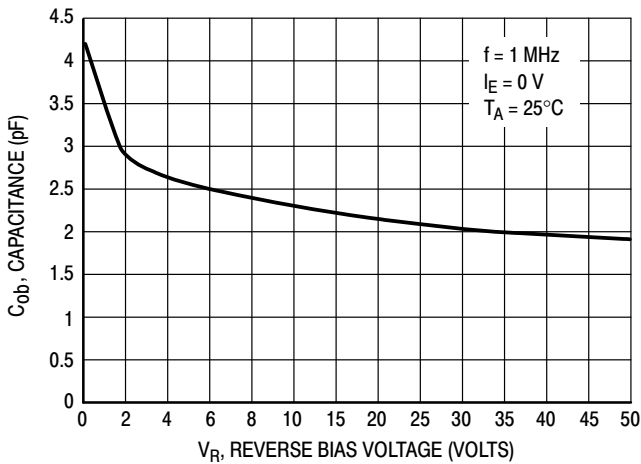
**TYPICAL ELECTRICAL CHARACTERISTICS - NSBC114YPDXV6T1 PNP TRANSISTOR**



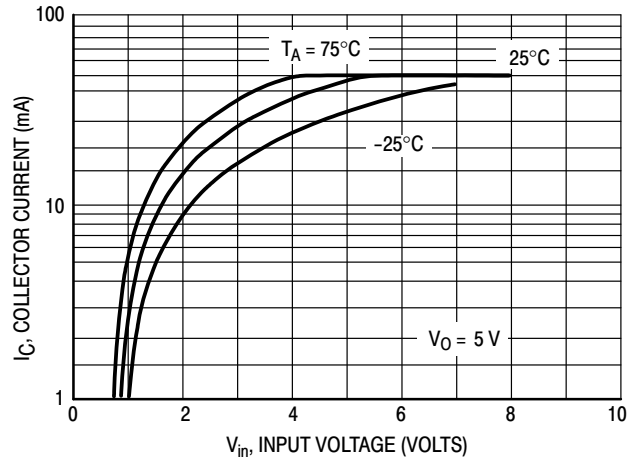
**Figure 37.  $V_{CE(sat)}$  versus  $I_C$**



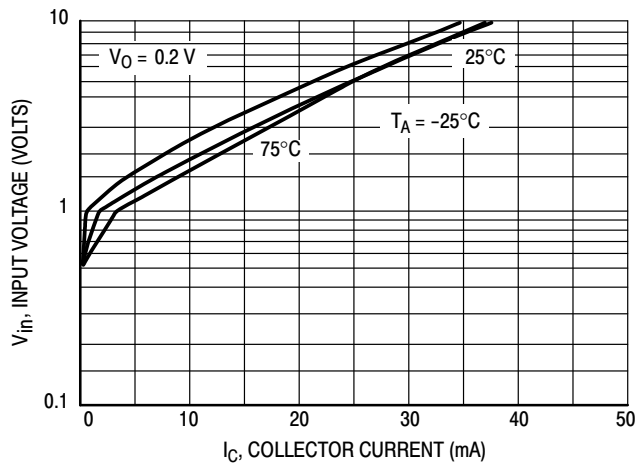
**Figure 38. DC Current Gain**



**Figure 39. Output Capacitance**



**Figure 40. Output Current versus Input Voltage**

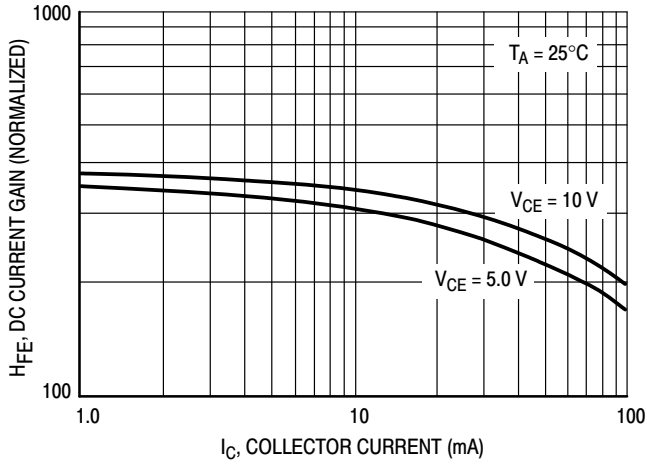


**Figure 41. Input Voltage versus Output Current**

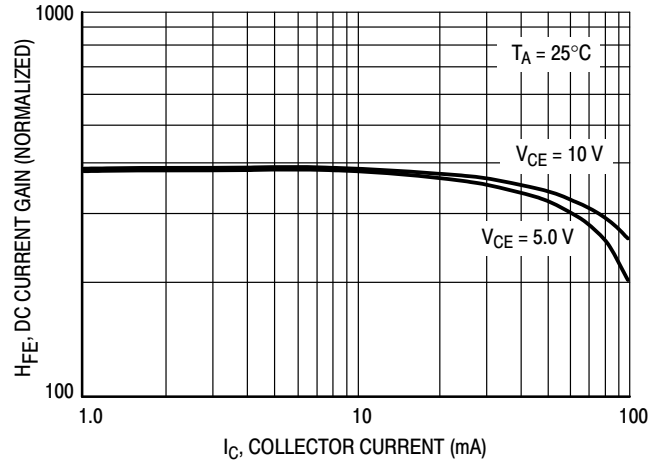


**NSBC114EPDXV6T1, NSBC114EPDXV6T5**

**TYPICAL ELECTRICAL CHARACTERISTICS - NSBC114TPDXV6T1**

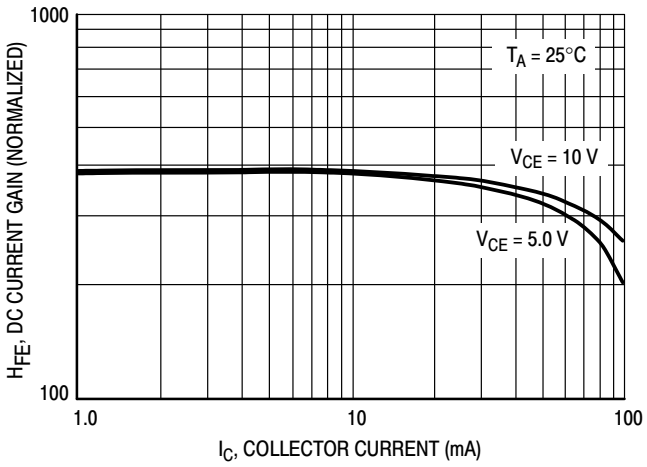


**Figure 42. DC Current Gain - PNP**

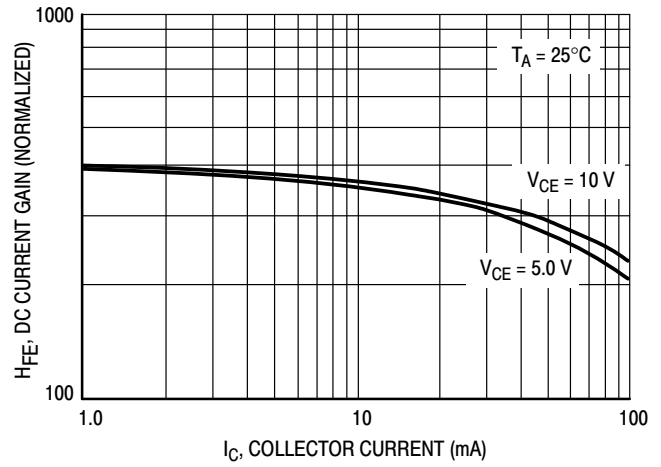


**Figure 43. DC Current Gain - NPN**

**TYPICAL ELECTRICAL CHARACTERISTICS - NSBC143TPDXV6T1**



**Figure 44. DC Current Gain - PNP**

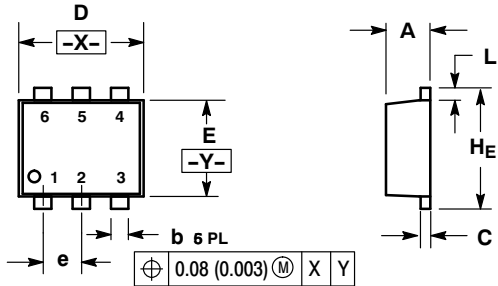


**Figure 45. DC Current Gain - NPN**

# NSBC114EPDXV6T1, NSBC114EPDXV6T5

## PACKAGE DIMENSIONS

SOT-563, 6 LEAD  
CASE 463A-01  
ISSUE F

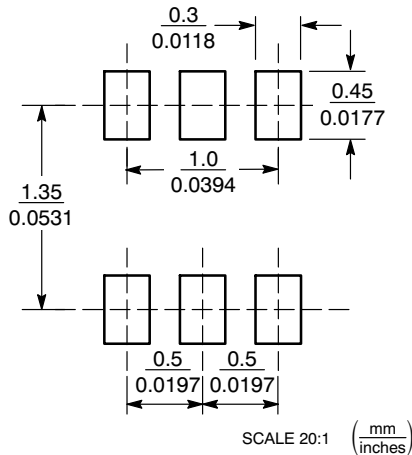


NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.50	0.55	0.60	0.020	0.021	0.023
b	0.17	0.22	0.27	0.007	0.009	0.011
C	0.08	0.12	0.18	0.003	0.005	0.007
D	1.50	1.60	1.70	0.059	0.062	0.066
E	1.10	1.20	1.30	0.043	0.047	0.051
e	0.5 BSC			0.02 BSC		
L	0.10	0.20	0.30	0.004	0.008	0.012
H <sub>E</sub>	1.50	1.60	1.70	0.059	0.062	0.066

### SOLDERING FOOTPRINT\*



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

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