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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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**SMALL SIGNAL COMPLEMENTARY PRE-BIASED DUAL TRANSISTOR**
**Features**

- Epitaxial Planar Die Construction
- Built-In Biasing Resistors
- Surface Mount Package Suited for Automated Assembly
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green" Device (Note 3)**
- **Qualified to AEC-Q101 Standards for High Reliability**
- **PPAP Capable (Note 4)**

Part Number	R1(NOM)	R2(NOM)
DCX124EU	22kΩ	22kΩ
DCX144EU	47kΩ	47kΩ
DCX114YU	10kΩ	47kΩ
DCX123JU	2.2kΩ	47kΩ
DCX114EU	10kΩ	10kΩ
DCX143EU	4.7kΩ	4.7kΩ
DCX143ZU	4.7kΩ	47kΩ
DCX115EU	100kΩ	100kΩ

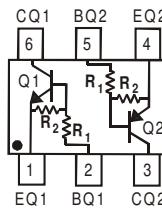
**Mechanical Data**

- Case: SOT363
- Case Material: Molded Plastic, "Green" Molding Compound; UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish – Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 Ⓜ3
- Weight: 0.006 grams (Approximate)

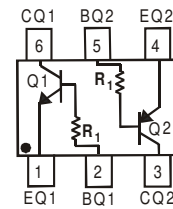
Part Number	R1 Only
DCX143TU	4.7kΩ
DCX114TU	10kΩ

**SOT363**


Top View



R1, R2



R1 Only

Device Schematic

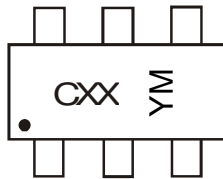
**Ordering Information (Notes 4 & 5)**

Product	Compliance	Marking	Reel Size (inches)	Tape Width (mm)	Quantity per Reel
DCX124EU-7-F	AEC-Q101	C17	7	8	3,000
DCX124EUQ-7-F	Automotive	C17	7	8	3,000
DCX124EUQ-13-F	Automotive	C17	13	8	10,000
DCX124EUQ-13R-F	Automotive	C17	13	8	10,000
DCX144EU-7-F	AEC-Q101	C20	7	8	3,000
DCX144EU-7R-F	AEC-Q101	C20	7	8	3,000
DCX144EUQ-7-F	Automotive	C20	7	8	3,000
DCX114YU-7-F	AEC-Q101	C14	7	8	3,000
DCX114YUQ-7-F	Automotive	C14	7	8	3,000
DCX114YUQ-13-F	Automotive	C14	13	8	10,000
DCX114YUQ-13R-F	Automotive	C14	13	8	10,000
DCX123JU-7-F	AEC-Q101	C06	7	8	3,000
DCX123JUQ-7-F	Automotive	C06	7	8	3,000
DCX114EU-7-F	AEC-Q101	C13	7	8	3,000
DCX114EU-13R-F	AEC-Q101	C13	13	8	10,000
DCX114EUQ-7-F	Automotive	C13	7	8	3,000
DCX114EUQ-13-F	Automotive	C13	13	8	10,000
DCX114EUQ-13R-F	Automotive	C13	13	8	10,000
DCX143TU-7-F	AEC-Q101	C07	7	8	3,000
DCX143EU-7-F	AEC-Q101	C08	7	8	3,000
DCX114TU-7-F	AEC-Q101	C12	7	8	3,000
DCX143ZU-7-F	AEC-Q101	C02	7	8	3,000
DCX115EU-7-F	AEC-Q101	C01	7	8	3,000

- Notes:
1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
  2. See [http://www.diodes.com/quality/lead\\_free.html](http://www.diodes.com/quality/lead_free.html) for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
  3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
  4. Automotive products are AEC-Q101 qualified and are PPAP capable. Automotive, AEC-Q101 and standard products are electrically and thermally the same, except where specified. For more information, please refer to [http://www.diodes.com/quality/product\\_compliance\\_definitions/](http://www.diodes.com/quality/product_compliance_definitions/).
  5. -7R and -13R are parts rotated in the pocket tape by +180°. For packaging details, go to our website at <http://www.diodes.com/products/packages.html>.

## Marking Information

SOT363



CXX = Product Type Marking Code  
 YM = Date Code Marking  
 Y = Year (ex: D = 2016)  
 M = Month (ex: 9 = September)

Date Code Key

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Code	X	Y	Z	A	B	C	D	E	F	G	H

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	O	N	D

## Absolute Maximum Ratings NPN Section (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Supply Voltage <Pin: (6) to (1)>	V <sub>CC</sub>	50	V
Input Voltage <Pin: (2) to (1)>	V <sub>IN</sub>	DCX124EU	-10 to +40
		DCX144EU	-10 to +40
		DCX114YU	-6 to +40
		DCX123JU	-5 to +12
		DCX114EU	-10 to +40
		DCX143TU	-5V Max
		DCX143EU	-10 to +30
		DCX114TU	-5V Max
		DCX143ZU	-10 to +30
DCX115EU	-10 to +40		
Output Current	I <sub>O</sub>	DCX124EU	30
		DCX144EU	30
		DCX114YU	70
		DCX123JU	100
		DCX114EU	50
		DCX143TU	100
		DCX143EU	100
		DCX114TU	100
		DCX143ZU	100
DCX115EU	20		
Output Current	I <sub>C</sub> (Max)	100	mA

**Absolute Maximum Ratings PNP Section** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic		Symbol	Value	Unit
Supply Voltage <Pin: (4) to (3)>		V <sub>CC</sub>	50	V
Input Voltage <Pin: (5) to (4)>	DCX124EU	V <sub>IN</sub>	+10 to -40	V
	DCX144EU		+10 to -40	
	DCX114YU		+6 to -40	
	DCX123JU		+5 to -12	
	DCX114EU		+10 to -40	
	DCX143TU		+5V Max	
	DCX143EU		+10 to -30	
	DCX114TU		+5V Max	
	DCX143ZU		+5 to -30	
DCX115EU	+10 to -40			
Output Current	DCX124EU	I <sub>O</sub>	-30	mA
	DCX144EU		-30	
	DCX114YU		-70	
	DCX123JU		-100	
	DCX114EU		-50	
	DCX143TU		-100	
	DCX143EU		-100	
	DCX114TU		-100	
	DCX143ZU		-100	
DCX115EU	-20			
Output Current		I <sub>C</sub> (Max)	-100	mA

**Thermal Characteristics** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Power Dissipation (Notes 6 & 7)	P <sub>D</sub>	200	mW
Thermal Resistance, Junction to Ambient Air (Note 6)	R <sub>θJA</sub>	625	°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

- Notes:
- 6. Mounted on FR4 PC Board with minimum recommended pad layout
  - 7. 150mW per element must not be exceeded.

**Electrical Characteristics NPN Section** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic		Symbol	Min	Typ	Max	Unit	Test Condition	
<b>R1 Only (DCX143TU &amp; DCX114TU)</b>								
Collector-Base Breakdown Voltage		BV <sub>CBO</sub>	50	—	—	V	I <sub>C</sub> = 50μA	
Collector-Emitter Breakdown Voltage		BV <sub>CEO</sub>	50	—	—	V	I <sub>C</sub> = 1mA	
Emitter-Base Breakdown Voltage		BV <sub>EBO</sub>	5	—	—	V	I <sub>E</sub> = 50μA	
Collector Cutoff Current		I <sub>CBO</sub>	—	—	0.5	μA	V <sub>CB</sub> = 50V	
Emitter Cutoff Current		I <sub>EBO</sub>	—	—	0.5	μA	V <sub>EB</sub> = 4V	
Collector-Emitter Saturation Voltage		V <sub>CE(SAT)</sub>	—	—	0.3	V	I <sub>C</sub> /I <sub>B</sub> = 2.5mA / 0.25mA DCX143TU I <sub>C</sub> /I <sub>B</sub> = 1mA / 0.1mA DCX114TU	
DC Current Transfer Ratio		h <sub>FE</sub>	100	250	600	—	I <sub>C</sub> = 1mA, V <sub>CE</sub> = 5V	
Input Resistor (R <sub>1</sub> ) Tolerance		ΔR <sub>1</sub>	-30	—	+30	%	—	
Gain-Bandwidth Product		f <sub>T</sub>	—	250	—	MHz	V <sub>CE</sub> = 10V, I <sub>E</sub> = -5mA, f = 100MHz	
<b>R1/R2 Only</b>								
Input Voltage	DCX124EU	V <sub>I(OFF)</sub>	0.5	1.1	—	V	V <sub>CC</sub> = 5V, I <sub>O</sub> = 100μA	
	DCX144EU		0.5	1.1				
	DCX114YU		0.3	—				
	DCX123JU		0.5	—				
	DCX114EU		0.5	1.1				
	DCX143EU		0.5	1.16				
	DCX143ZU		0.5	—				
	DCX115EU		0.5	—				
	DCX124EU	V <sub>I(ON)</sub>	—	1.9	3.0	V	V <sub>O</sub> = 0.3V, I <sub>O</sub> = 5mA	
	DCX144EU		—	1.9	3.0		V <sub>O</sub> = 0.3V, I <sub>O</sub> = 2mA	
	DCX114YU		—	—	1.4		V <sub>O</sub> = 0.3V, I <sub>O</sub> = 1mA	
	DCX123JU		—	—	1.1		V <sub>O</sub> = 0.3V, I <sub>O</sub> = 5mA	
	DCX114EU		—	1.9	3.0		V <sub>O</sub> = 0.3V, I <sub>O</sub> = 10mA	
	DCX143EU		—	1.99	3.0		V <sub>O</sub> = 0.3V, I <sub>O</sub> = 20mA	
	DCX143ZU		—	—	1.3		V <sub>O</sub> = 0.3V, I <sub>O</sub> = 5mA	
DCX115EU	—		—	3	V <sub>O</sub> = 0.3V, I <sub>O</sub> = 1mA			
Output Voltage	DCX124EU	V <sub>O(ON)</sub>	—	0.1	0.3	V	I <sub>O</sub> /I <sub>I</sub> = 10mA / 0.5mA	
	DCX144EU						I <sub>O</sub> /I <sub>I</sub> = 10mA / 0.5mA	
	DCX114YU						I <sub>O</sub> /I <sub>I</sub> = 5mA / 0.25mA	
	DCX123JU						I <sub>O</sub> /I <sub>I</sub> = 5mA / 0.25mA	
	DCX114EU						I <sub>O</sub> /I <sub>I</sub> = 10mA / 0.5mA	
	DCX143EU						I <sub>O</sub> /I <sub>I</sub> = 10mA / 0.5mA	
	DCX143ZU						I <sub>O</sub> /I <sub>I</sub> = 5mA / 0.25mA	
	DCX115EU						I <sub>O</sub> /I <sub>I</sub> = 10mA / 0.5mA	
Input Current	DCX124EU	I <sub>I</sub>	—	—	—	mA	V <sub>I</sub> = 5V	
	DCX144EU							0.36
	DCX114YU							0.18
	DCX123JU							0.88
	DCX114EU							3.6
	DCX143EU							0.88
	DCX143ZU							0.88
	DCX115EU							1.8
Output Current		I <sub>O(OFF)</sub>	—	—	0.5	μA	V <sub>CC</sub> = 50V, V <sub>I</sub> = 0V	
DC Current Gain	DCX124EU	G <sub>i</sub>	—	—	—	—	V <sub>O</sub> = 5V, I <sub>O</sub> = 5mA	
	DCX124EUQ						56	V <sub>O</sub> = 5V, I <sub>O</sub> = 5mA
	DCX144EU						60	V <sub>O</sub> = 5V, I <sub>O</sub> = 5mA
	DCX114YU						68	V <sub>O</sub> = 5V, I <sub>O</sub> = 5mA
	DCX114YUQ						68	V <sub>O</sub> = 5V, I <sub>O</sub> = 10mA
	DCX123JU						80	V <sub>O</sub> = 5V, I <sub>O</sub> = 10mA
	DCX114EU						80	V <sub>O</sub> = 5V, I <sub>O</sub> = 10mA
	DCX143EU						30	V <sub>O</sub> = 5V, I <sub>O</sub> = 5mA
	DCX143ZU						50	V <sub>O</sub> = 5V, I <sub>O</sub> = 10mA
DCX115EU	80	V <sub>O</sub> = 5V, I <sub>O</sub> = 10mA						
Input Resistor (R <sub>1</sub> ) Tolerance		ΔR <sub>1</sub>	-30	—	+30	%	—	
Resistance Ratio Tolerance		ΔR <sub>2</sub> /R <sub>1</sub>	-20	—	+20	%	—	
Gain-Bandwidth Product		f <sub>T</sub>	—	250	—	MHz	V <sub>CE</sub> = 10V, I <sub>E</sub> = 5mA, f = 100MHz	

**Electrical Characteristics PNP Section** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition		
<b>R1 Only (DCX143TU &amp; DCX114TU)</b>								
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	-50	—	—	V	I <sub>C</sub> = -50μA		
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	-50	—	—	V	I <sub>C</sub> = -1mA		
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	-5	—	—	V	I <sub>E</sub> = -50μA		
Collector Cutoff Current	I <sub>CBO</sub>	—	—	-0.5	μA	V <sub>CB</sub> = -50V		
Emitter Cutoff Current	I <sub>EBO</sub>	—	—	-0.5	μA	V <sub>EB</sub> = -4V		
Collector-Emitter Saturation Voltage	V <sub>CE(SAT)</sub>	—	—	-0.3	V	I <sub>C</sub> /I <sub>B</sub> = 2.5mA / 0.25mA DCX143TU I <sub>C</sub> /I <sub>B</sub> = 1mA / 0.1mA DCX114TU		
DC Current Transfer Ratio	h <sub>FE</sub>	100	250	600	—	I <sub>C</sub> = -1mA, V <sub>CE</sub> = -5V		
Input Resistor (R <sub>1</sub> ) Tolerance	ΔR <sub>1</sub>	-30	—	+30	%	—		
Gain-Bandwidth Product	f <sub>T</sub>	—	250	—	MHz	V <sub>CE</sub> = -10V, I <sub>E</sub> = 5mA, f = 100MHz		
<b>R1/R2 Only</b>								
Input Voltage	DCX124EU	V <sub>I(OFF)</sub>	-0.5	-1.1	—	V	V <sub>CC</sub> = -5V, I <sub>O</sub> = -100μA	
	DCX144EU		-0.5	-1.1				
	DCX114YU		-0.3	—				
	DCX123JU		-0.5	—				
	DCX114EU		-0.5	-1.1				
	DCX143EU		-0.5	-1.16				
	DCX143ZU		-0.5	—				
	DCX115EU		-0.5	—				
	DCX124EU	V <sub>I(ON)</sub>	—	-1.9	-3.0	V	V <sub>O</sub> = -0.3V, I <sub>O</sub> = -5mA	
	DCX144EU		—	-1.9	-3.0		V <sub>O</sub> = -0.3V, I <sub>O</sub> = -2mA	
	DCX114YU		—	—	-1.4		V <sub>O</sub> = -0.3V, I <sub>O</sub> = -1mA	
	DCX123JU		—	—	-1.1		V <sub>O</sub> = -0.3V, I <sub>O</sub> = -5mA	
	DCX114EU		—	-1.9	-3.0		V <sub>O</sub> = -0.3V, I <sub>O</sub> = -10mA	
	DCX143EU		—	-2.5	-3.0		V <sub>O</sub> = -0.3V, I <sub>O</sub> = -20mA	
	DCX143ZU		—	—	-1.3		V <sub>O</sub> = -0.3V, I <sub>O</sub> = -5mA	
	DCX115EU		—	—	-3		V <sub>O</sub> = -0.3V, I <sub>O</sub> = -1mA	
Output Voltage	DCX124EU	V <sub>O(ON)</sub>	—	-0.1	-0.3	V	I <sub>O</sub> /I <sub>I</sub> = -10mA / -0.5mA	
	DCX144EU						I <sub>O</sub> /I <sub>I</sub> = -10mA / -0.5mA	
	DCX114YU						I <sub>O</sub> /I <sub>I</sub> = -5mA / -0.25mA	
	DCX123JU						I <sub>O</sub> /I <sub>I</sub> = -5mA / -0.25mA	
	DCX114EU						I <sub>O</sub> /I <sub>I</sub> = -10mA / -0.5mA	
	DCX143EU						I <sub>O</sub> /I <sub>I</sub> = -10mA / -0.5mA	
	DCX143ZU						I <sub>O</sub> /I <sub>I</sub> = -5mA / -0.25mA	
DCX115EU	I <sub>O</sub> /I <sub>I</sub> = -10mA / -0.5mA							
Input Current	DCX124EU	I <sub>I</sub>	—	—	-0.36	mA	V <sub>I</sub> = -5V	
	DCX144EU							-0.18
	DCX114YU							-0.88
	DCX123JU							-3.6
	DCX114EU							-0.88
	DCX143EU							-0.88
	DCX143ZU							-1.8
DCX115EU	-0.15							
Output Current	I <sub>O(OFF)</sub>	—	—	—	-0.5	μA	V <sub>CC</sub> = 50V, V <sub>I</sub> = 0V	
DC Current Gain	DCX124EU	G <sub>I</sub>	—	—	—	—	V <sub>O</sub> = -5V, I <sub>O</sub> = -5mA	
	DCX124EUQ						56	V <sub>O</sub> = -5V, I <sub>O</sub> = -5mA
	DCX144EU						60	V <sub>O</sub> = -5V, I <sub>O</sub> = -5mA
	DCX114YU						68	V <sub>O</sub> = -5V, I <sub>O</sub> = -5mA
	DCX114YUQ						68	V <sub>O</sub> = -5V, I <sub>O</sub> = -10mA
	DCX123JU						80	V <sub>O</sub> = -5V, I <sub>O</sub> = -10mA
	DCX114EU						80	V <sub>O</sub> = -5V, I <sub>O</sub> = -10mA
	DCX143EU						30	V <sub>O</sub> = -5V, I <sub>O</sub> = -5mA
	DCX143ZU						40	V <sub>O</sub> = -5V, I <sub>O</sub> = -10mA
DCX115EU	80	V <sub>O</sub> = -5V, I <sub>O</sub> = -10mA						
DCX115EU	82	V <sub>O</sub> = -5V, I <sub>O</sub> = -5mA						
Input Resistor (R <sub>1</sub> ) Tolerance	ΔR <sub>1</sub>	-30	—	+30	%	—		
Resistance Ratio Tolerance	ΔR <sub>2</sub> /R <sub>1</sub>	-20	—	+20	%	—		
Gain-Bandwidth Product	f <sub>T</sub>	—	250	—	MHz	V <sub>CE</sub> = -10V, I <sub>E</sub> = -5mA, f = 100MHz		

**Typical Curves – Total Device**

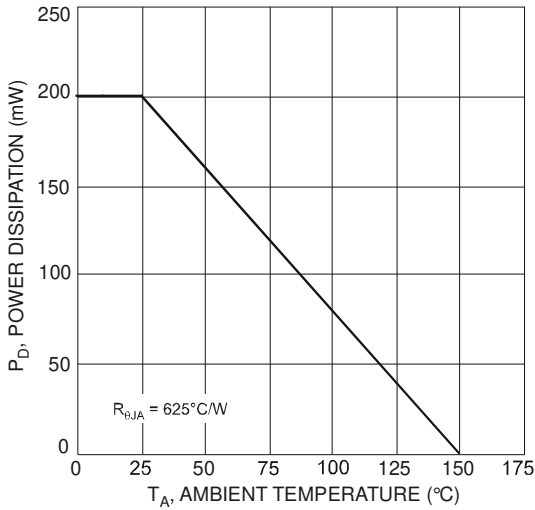


Fig. 1 Power Derating Curve

**Typical Curves – DCX123JU PNP Section (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)**

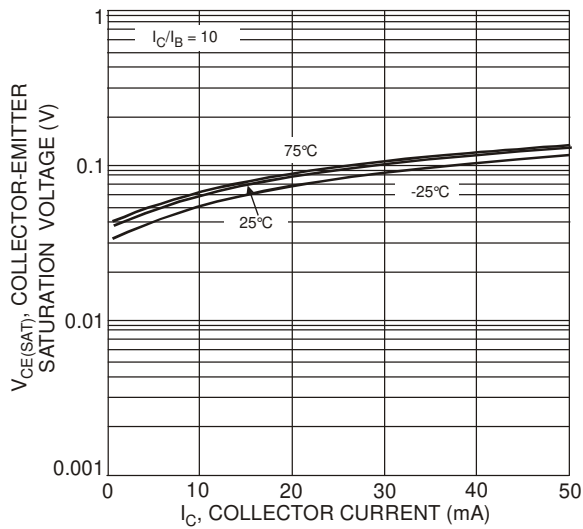


Fig. 2 Typical  $V_{CE(SAT)}$  vs.  $I_C$

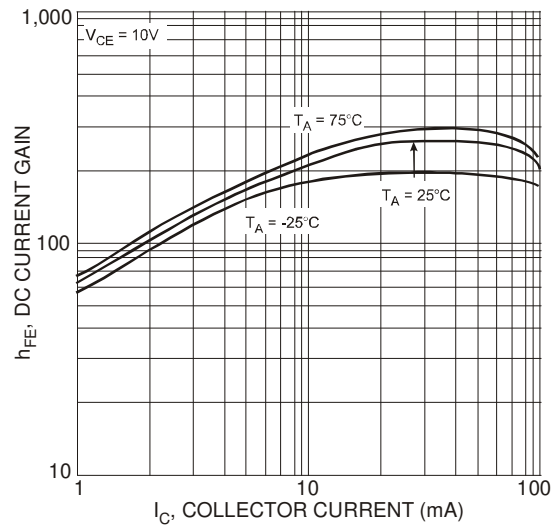


Fig. 3 Typical DC Current Gain

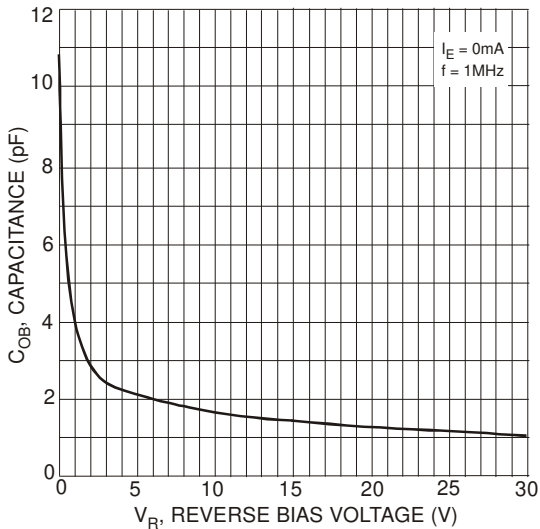


Fig. 4 Typical Output Capacitance

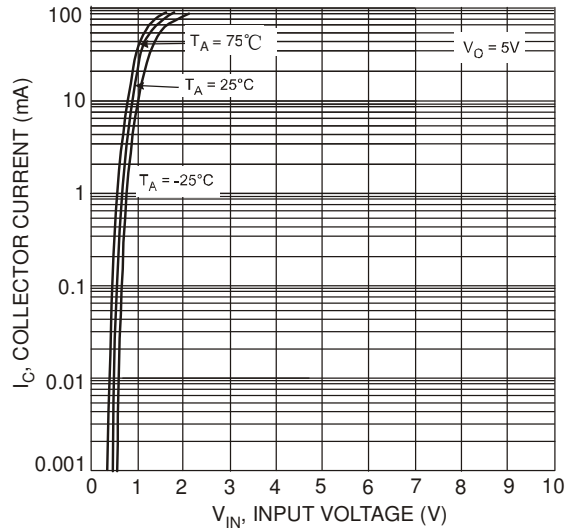


Fig. 5 Typical Collector Current vs. Input Voltage

**Typical Curves – DCX123JU PNP Section (Cont.)**

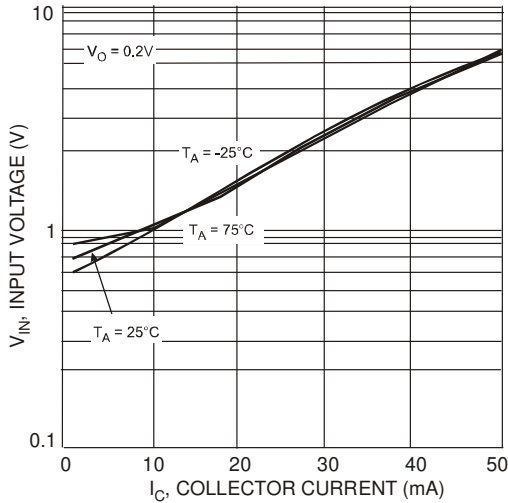


Fig. 6 Typical Input Voltage vs. Collector Current

**Typical Curves – DCX123JU NPN Section (@T<sub>A</sub> = +25°C, unless otherwise specified.)**

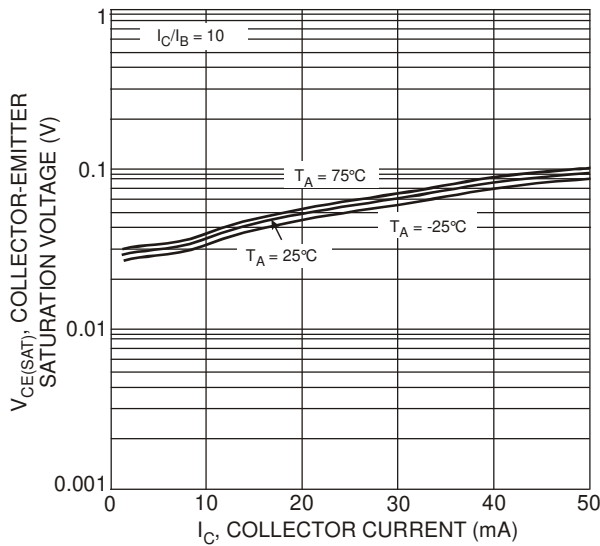


Fig. 7 Typical V<sub>CE(SAT)</sub> vs. I<sub>C</sub>

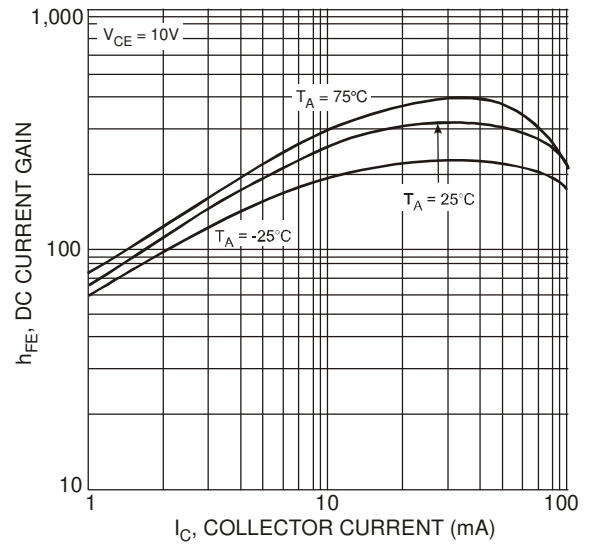


Fig. 8 Typical DC Current Gain

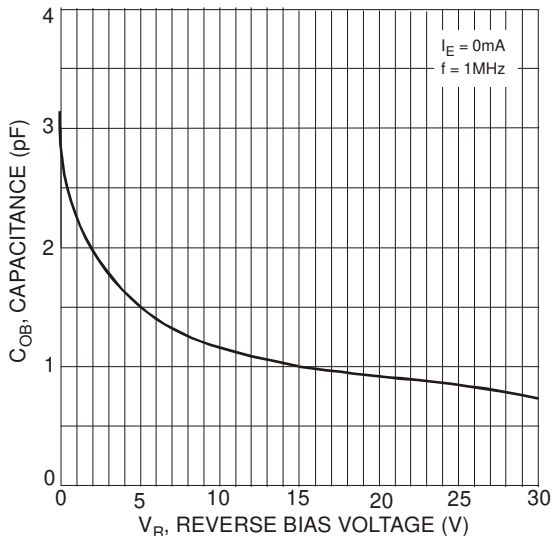


Fig. 9 Typical Output Capacitance

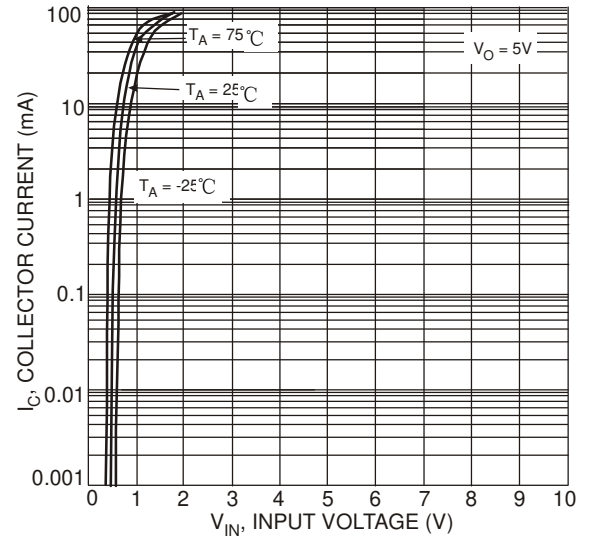


Fig. 10 Typical Collector Current vs. Input Voltage



**Typical Curves – DCX123JU NPN Section (Cont.)**

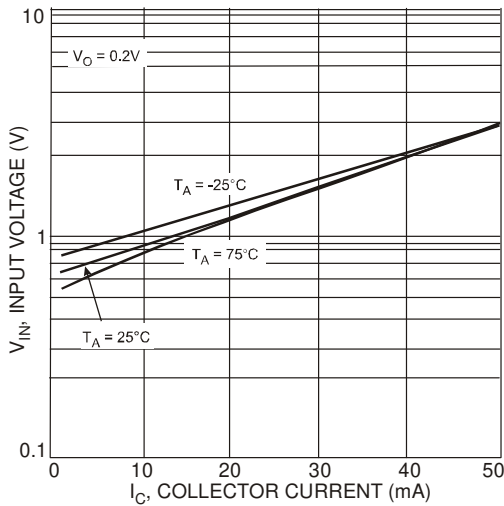


Fig. 11 Typical Input Voltage vs. Collector Current

**Typical Curves – DCX143EU PNP Section (@T<sub>A</sub> = +25°C, unless otherwise specified.)**

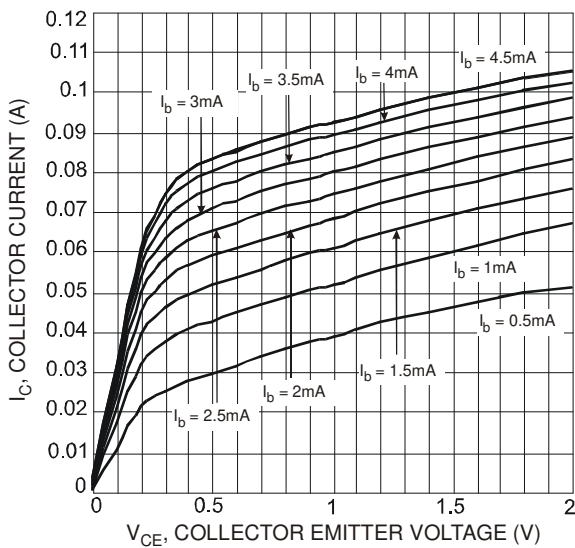


Fig. 12 Typical V<sub>CE</sub> vs. I<sub>C</sub>

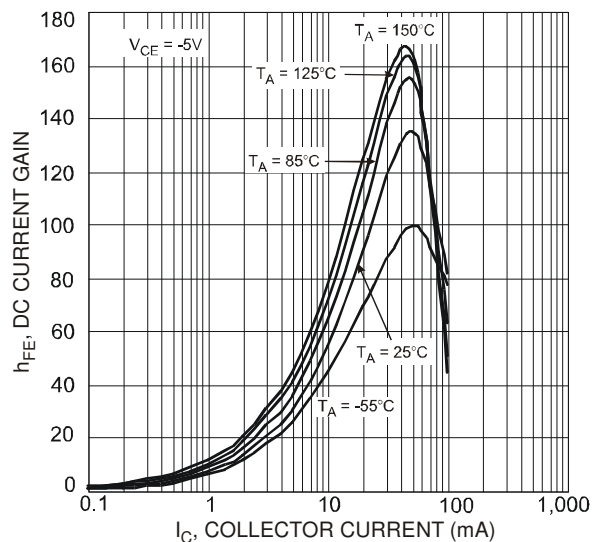


Fig. 13 Typical DC Current Gain

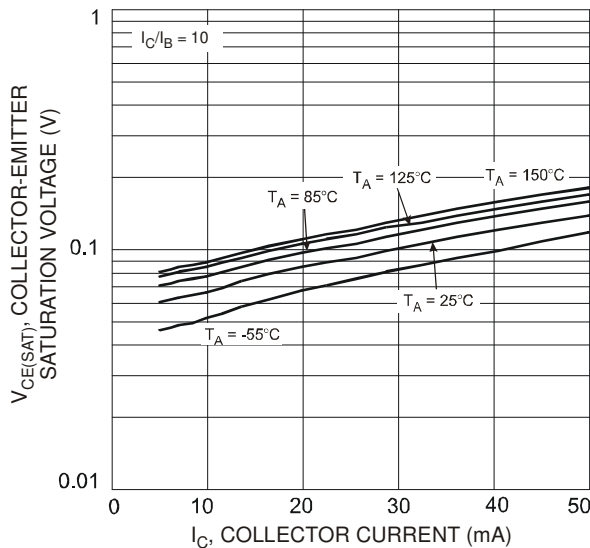


Fig. 14 Typical V<sub>CE(SAT)</sub> vs. I<sub>C</sub>

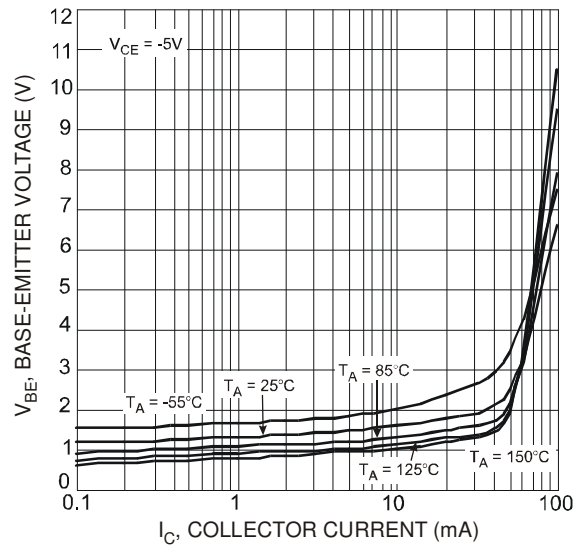


Fig. 15 Typical V<sub>BE</sub> vs. I<sub>C</sub>

**Typical Curves – DCX143EU PNP Section (Cont.)**

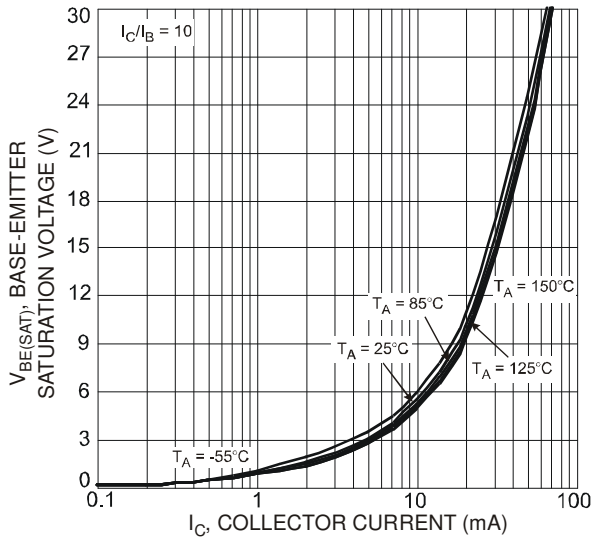


Fig. 16 Typical  $V_{BE(SAT)}$  vs.  $I_C$

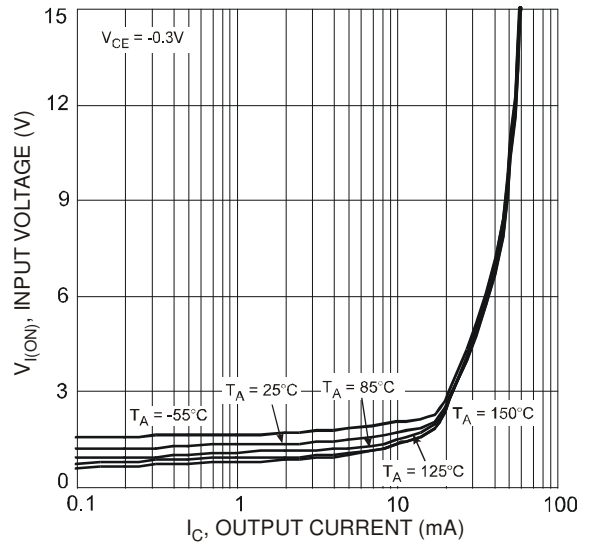


Fig. 17 Typical  $V_{I(ON)}$  vs.  $I_C$

**Typical Curves – DCX143EU NPN Section (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)**

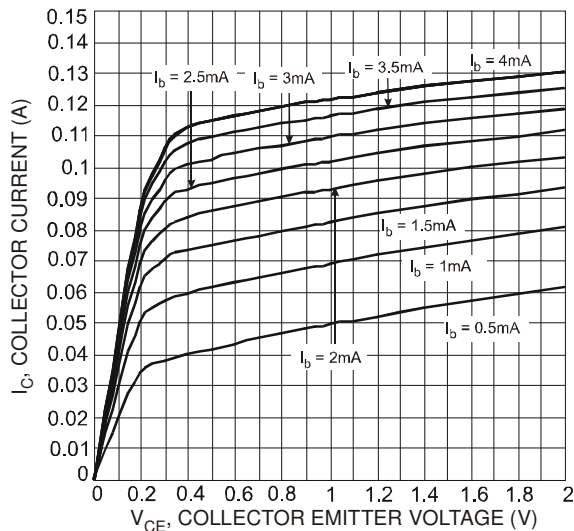


Fig. 18 Typical  $V_{CE}$  vs.  $I_C$

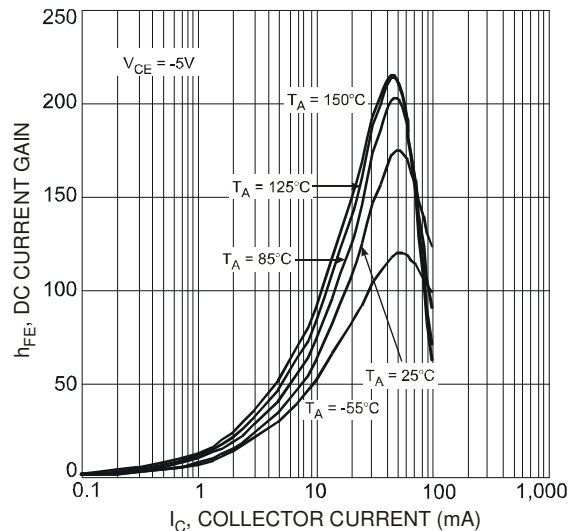


Fig. 19 Typical DC Current Gain

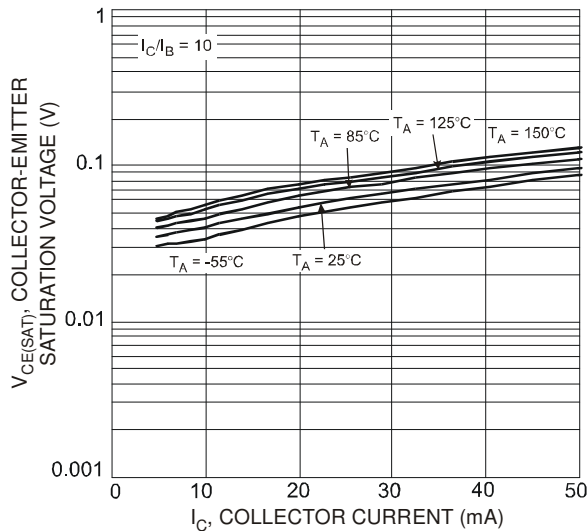


Fig. 20 Typical  $V_{CE(SAT)}$  vs.  $I_C$

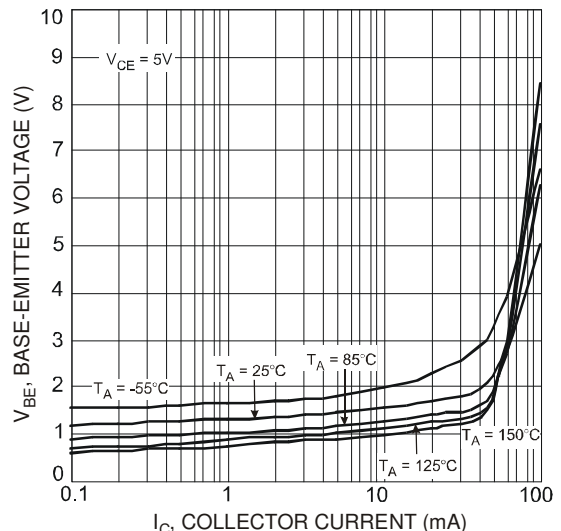


Fig. 21 Typical  $V_{BE}$  vs.  $I_C$

**Typical Curves – DCX143EU NPN Section (Cont.)**

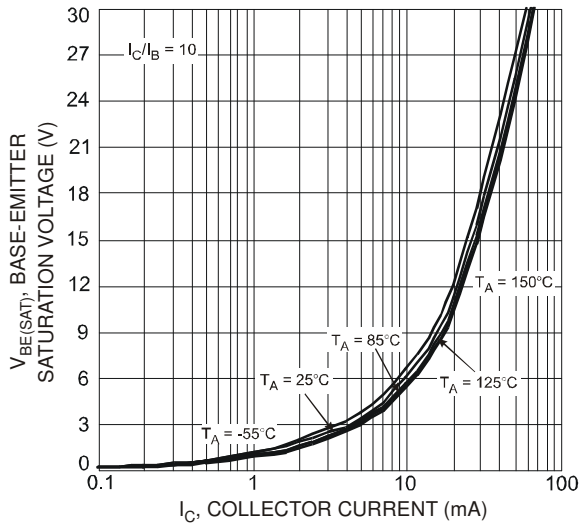


Fig. 22 Typical  $V_{BE(SAT)}$  vs.  $I_C$

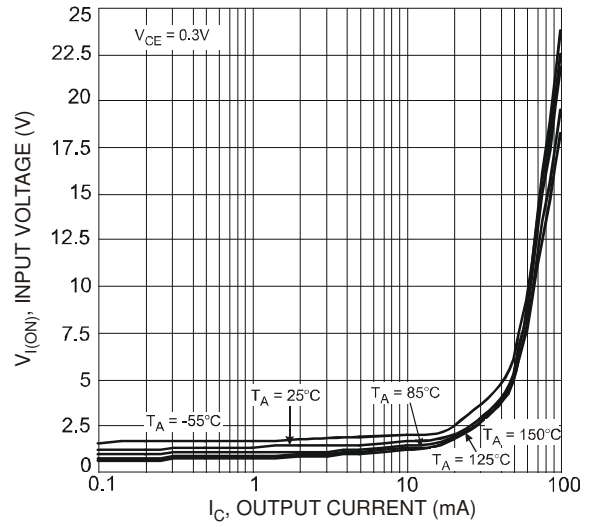


Fig. 23 Typical  $V_{I(ON)}$  vs.  $I_C$

**Typical Curves – DCX114TU PNP Section (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)**

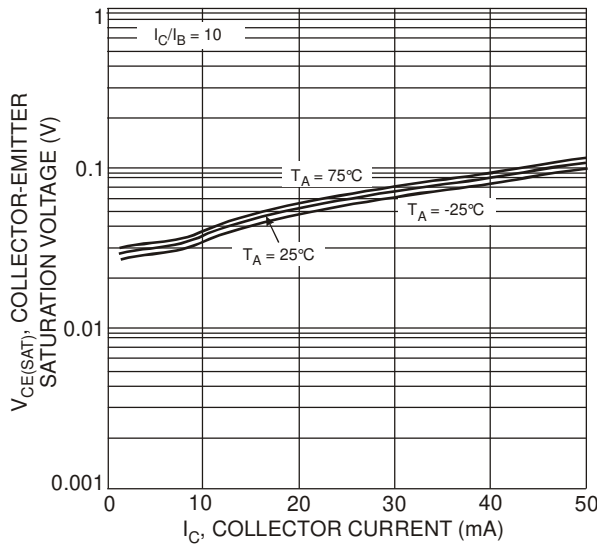


Fig. 24 Typical  $V_{CE(SAT)}$  vs.  $I_C$

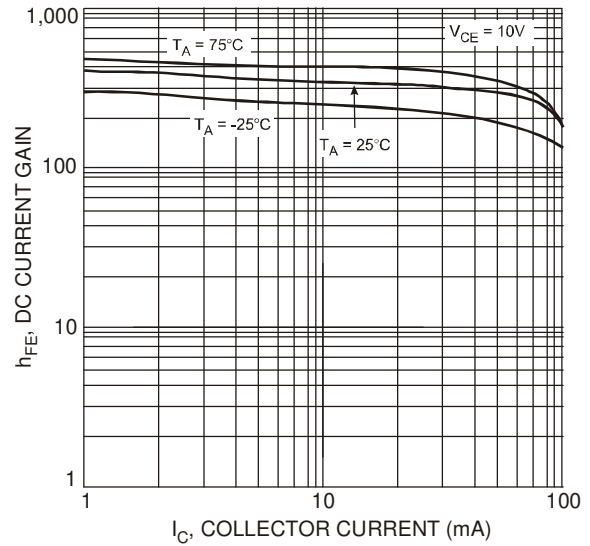


Fig. 25 Typical DC Current Gain

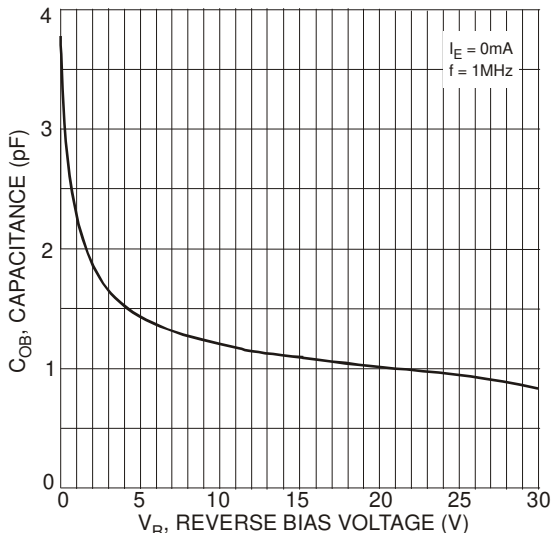


Fig. 26 Typical Output Capacitance

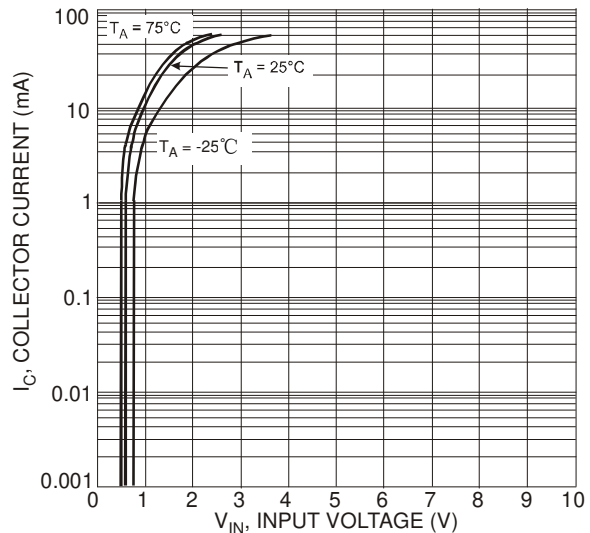


Fig. 27 Typical Collector Current vs. Input Voltage

**Typical Curves – DCX114TU PNP Section (Cont.)**

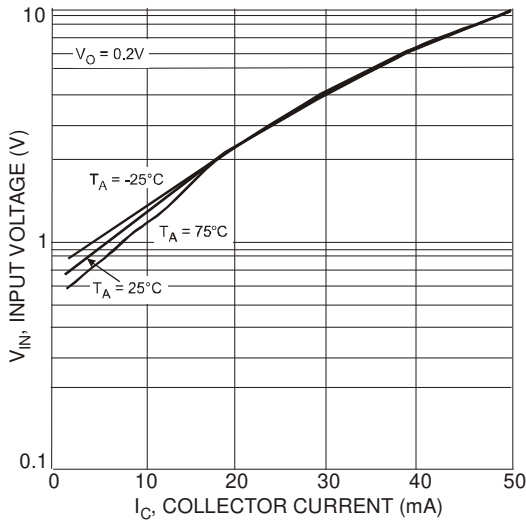


Fig. 28 Typical Input Voltage vs. Collector Current

**Typical Curves – DCX114TU NPN Section (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)**

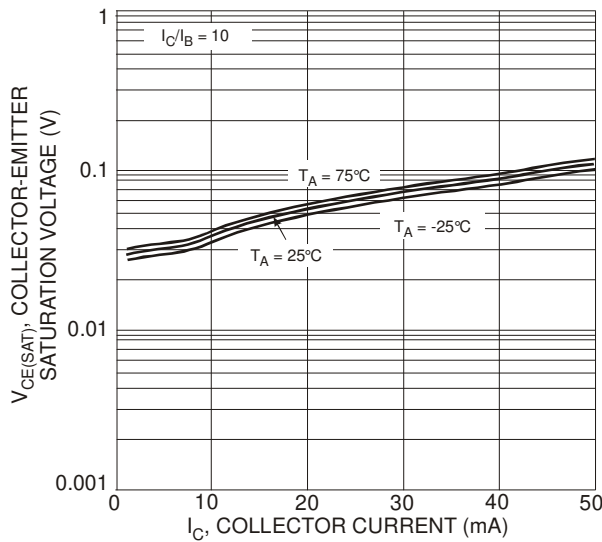


Fig. 29 Typical  $V_{CE(SAT)}$  vs.  $I_C$

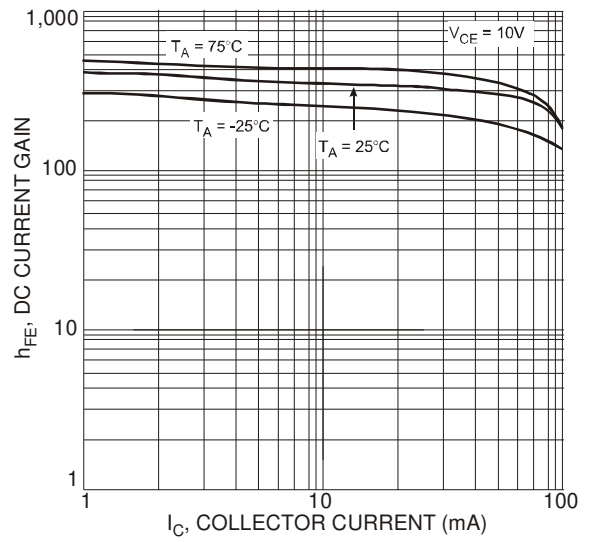


Fig. 30 Typical DC Current Gain

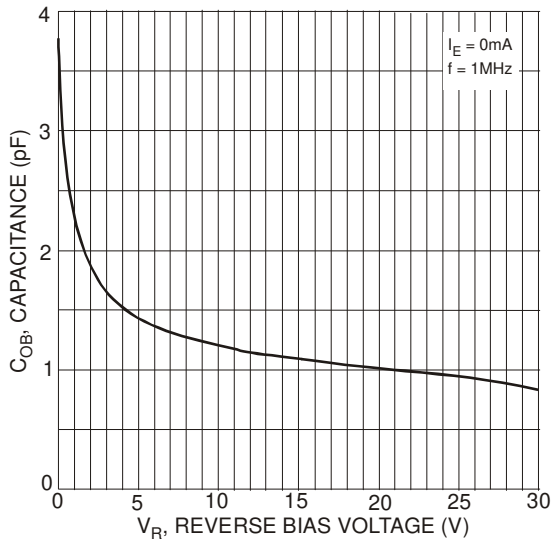


Fig. 31 Typical Output Capacitance

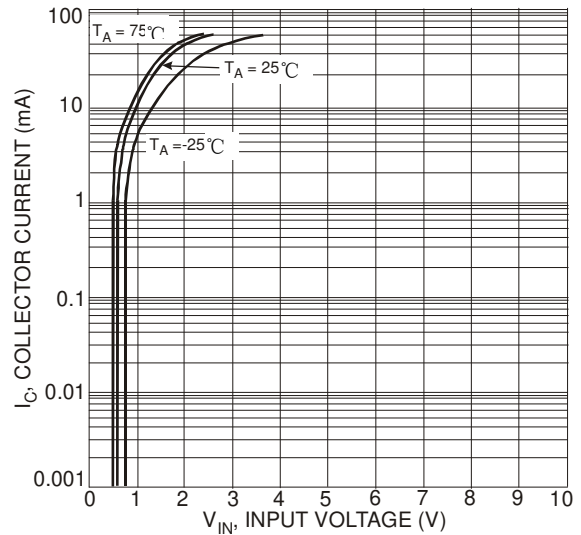


Fig. 32 Typical Collector Current vs. Input Voltage

**Typical Curves – DCX114TU NPN Section (Cont.)**

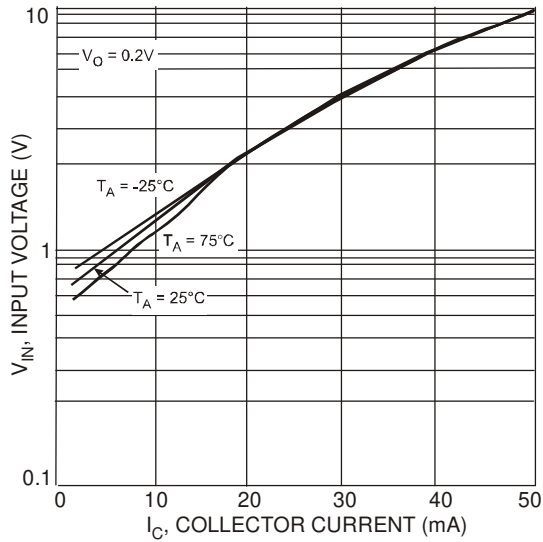
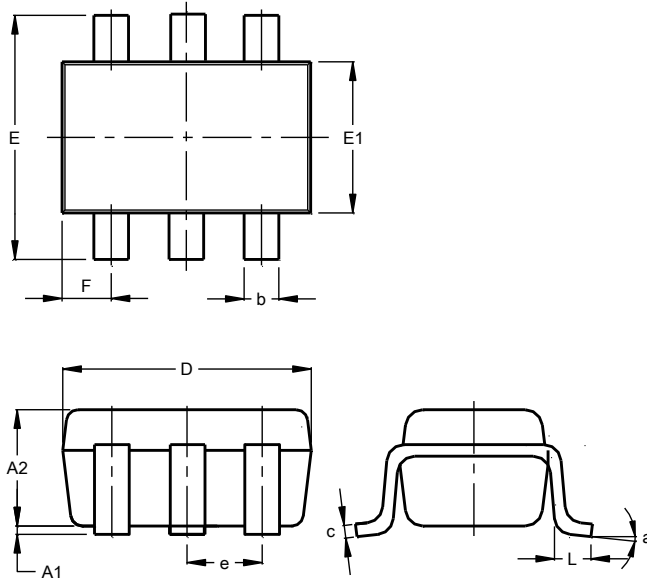


Fig. 33 Typical Input Voltage vs. Collector Current

**Package Outline Dimensions**

Please see AP02001 at [http://www.diodes.com/\\_files/datasheets/ap02001.pdf](http://www.diodes.com/_files/datasheets/ap02001.pdf) for the latest version.

**SOT363**

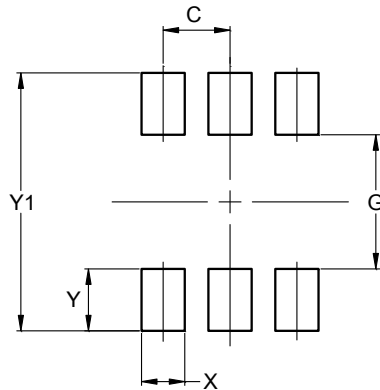


SOT363			
Dim	Min	Max	Typ
A1	0.00	0.10	0.05
A2	0.90	1.00	1.00
b	0.10	0.30	0.25
c	0.10	0.22	0.11
D	1.80	2.20	2.15
E	2.00	2.20	2.10
E1	1.15	1.35	1.30
e	0.650 BSC		
F	0.40	0.45	0.425
L	0.25	0.40	0.30
a	8°		
<b>All Dimensions in mm</b>			

## Suggested Pad Layout

Please see AP02001 at [http://www.diodes.com/\\_files/datasheets/ap02001.pdf](http://www.diodes.com/_files/datasheets/ap02001.pdf) for the latest version.

### SOT363



Dimensions	Value (in mm)
C	0.650
G	1.300
X	0.420
Y	0.600
Y1	2.500

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