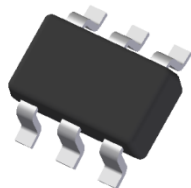


SMALL SIGNAL COMPLEMENTARY PRE-BIASED DUAL TRANSISTOR
Features

- 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 |

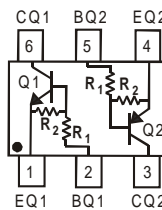
SOT363


Top View

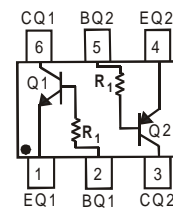
Mechanical Data

- 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 |



R1, R2



R1 Only

Device Schematic

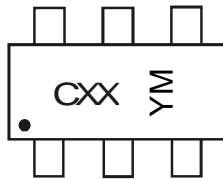
Ordering Information (Notes 4, 5 & 6)

| Product | Status | Compliance | Marking | Reel Size (inches) | Tape Width (mm) | Quantity per Reel |
|-----------------|----------------------|------------|---------|--------------------|-----------------|-------------------|
| DCX124EU-7-F | Active | AEC-Q101 | C17 | 7 | 8 | 3,000 |
| DCX124EUQ-7-F | NRND (Use ACX124EUQ) | Automotive | C17 | 7 | 8 | 3,000 |
| DCX124EUQ-13-F | NRND (Use ACX124EUQ) | Automotive | C17 | 13 | 8 | 10,000 |
| DCX124EUQ-13R-F | NRND (Use ACX124EUQ) | Automotive | C17 | 13 | 8 | 10,000 |
| DCX144EU-7-F | Active | AEC-Q101 | C20 | 7 | 8 | 3,000 |
| DCX144EU-7R-F | Active | AEC-Q101 | C20 | 7 | 8 | 3,000 |
| DCX144EUQ-7-F | Active | Automotive | C20 | 7 | 8 | 3,000 |
| DCX114YU-7-F | Active | AEC-Q101 | C14 | 7 | 8 | 3,000 |
| DCX114YUQ-7-F | NRND (Use ACX114YUQ) | Automotive | C14 | 7 | 8 | 3,000 |
| DCX114YUQ-13-F | NRND (Use ACX114YUQ) | Automotive | C14 | 13 | 8 | 10,000 |
| DCX114YUQ-13R-F | NRND (Use ACX114YUQ) | Automotive | C14 | 13 | 8 | 10,000 |
| DCX123JU-7-F | Active | AEC-Q101 | C06 | 7 | 8 | 3,000 |
| DCX123JUQ-7-F | Active | Automotive | C06 | 7 | 8 | 3,000 |
| DCX114EU-7-F | Active | AEC-Q101 | C13 | 7 | 8 | 3,000 |
| DCX114EU-13R-F | Active | AEC-Q101 | C13 | 13 | 8 | 10,000 |
| DCX114EUQ-7-F | NRND (Use ACX114EUQ) | Automotive | C13 | 7 | 8 | 3,000 |
| DCX114EUQ-13-F | NRND (Use ACX114EUQ) | Automotive | C13 | 13 | 8 | 10,000 |
| DCX114EUQ-13R-F | NRND (Use ACX114EUQ) | Automotive | C13 | 13 | 8 | 10,000 |
| DCX143TU-7-F | Active | AEC-Q101 | C07 | 7 | 8 | 3,000 |
| DCX143EU-7-F | Active | AEC-Q101 | C08 | 7 | 8 | 3,000 |
| DCX114TU-7-F | Active | AEC-Q101 | C12 | 7 | 8 | 3,000 |
| DCX143ZU-7-F | Active | AEC-Q101 | C02 | 7 | 8 | 3,000 |
| DCX115EU-7-F | Active | 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) & 2015/863/EU (RoHS 3) compliant.
 2. See <https://www.diodes.com/quality/lead-free/> 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/>.
 5. -7R and -13R are parts rotated in the pocket tape by +180°. For packaging details, go to our website at <https://www.diodes.com/design/support/packaging/diodes-packaging/>.
 6. NRND = Not Recommended for New Design.

Marking Information

SOT363



CXX = Product Type Marking Code
 YM = Date Code Marking
 Y = Year (ex: F = 2018)
 M = Month (ex: 9 = September)

Date Code Key

| Year | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| Code | F | G | H | I | J | K | L | M | N | O | P |

| 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_A = +25°C, unless otherwise specified.)

| Characteristic | Symbol | Value | Unit |
|------------------------------------|----------------------|----------|------------|
| Supply Voltage <Pin: (6) to (1)> | V _{CC} | 50 | V |
| Input Voltage <Pin: (2) to (1)> | V _{IN} | 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 _O | DCX124EU | 30 |
| | | DCX144EU | 30 |
| | | DCX114YU | 70 |
| | | DCX123JU | 100 |
| | | DCX114EU | 50 |
| | | DCX143TU | 100 |
| | | DCX143EU | 100 |
| | | DCX114TU | 100 |
| | | DCX143ZU | 100 |
| DCX115EU | 20 | | |
| Output Current | I _C (Max) | 100 | mA |

Absolute Maximum Ratings PNP Section (@T_A = +25°C, unless otherwise specified.)

| Characteristic | | Symbol | Value | Unit |
|------------------------------------|----------------------|-----------------|------------|------|
| Supply Voltage <Pin: (4) to (3)> | | V _{CC} | 50 | V |
| Input Voltage <Pin: (5) to (4)> | DCX124EU | V _{IN} | +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 _O | -30 | mA |
| | DCX144EU | | -30 | |
| | DCX114YU | | -70 | |
| | DCX123JU | | -100 | |
| | DCX114EU | | -50 | |
| | DCX143TU | | -100 | |
| | DCX143EU | | -100 | |
| | DCX114TU | | -100 | |
| | DCX143ZU | | -100 | |
| DCX115EU | -20 | | | |
| Output Current | I _C (Max) | -100 | mA | |

Thermal Characteristics (@T_A = +25°C, unless otherwise specified.)

| Characteristic | Symbol | Value | Unit |
|--|-----------------------------------|-------------|------|
| Power Dissipation (Notes 7 & 8) | P _D | 200 | mW |
| Thermal Resistance, Junction to Ambient Air (Note 7) | R _{θJA} | 625 | °C/W |
| Operating and Storage Temperature Range | T _J , T _{STG} | -55 to +150 | °C |

- Notes:
- 7. Mounted on FR-4 PC Board with minimum recommended pad layout.
 - 8. 150mW per element must not be exceeded.

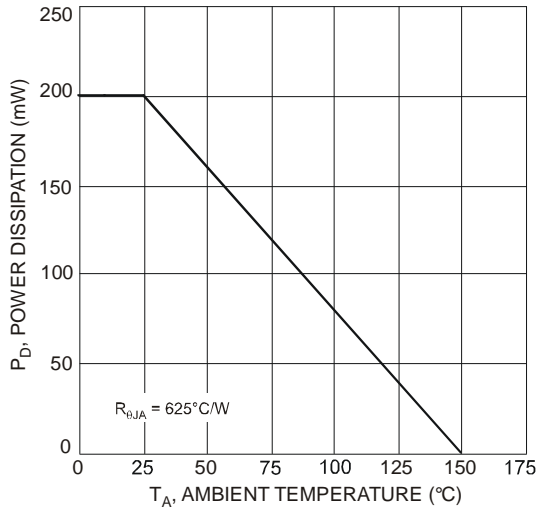
Electrical Characteristics NPN Section (@T_A = +25°C, unless otherwise specified.)

| Characteristic | | Symbol | Min | Typ | Max | Unit | Test Condition |
|--|-----------|---|-----|------|------|------|---|
| R1 Only (DCX143TU & DCX114TU) | | | | | | | |
| Collector-Base Breakdown Voltage | | BV _{CBO} | 50 | — | — | V | I _C = 50μA |
| Collector-Emitter Breakdown Voltage | | BV _{CEO} | 50 | — | — | V | I _C = 1mA |
| Emitter-Base Breakdown Voltage | | BV _{EBO} | 5 | — | — | V | I _E = 50μA |
| Collector Cutoff Current | | I _{CBO} | — | — | 0.5 | μA | V _{CB} = 50V |
| Emitter Cutoff Current | | I _{EBO} | — | — | 0.5 | μA | V _{EB} = 4V |
| Collector-Emitter Saturation Voltage | | V _{CE(SAT)} | — | — | 0.3 | V | I _C /I _B = 2.5mA / 0.25mA DCX143TU I _C /I _B = 1mA / 0.1mA DCX114TU |
| DC Current Transfer Ratio | | h _{FE} | 100 | 250 | 600 | — | I _C = 1mA, V _{CE} = 5V |
| Input Resistor (R ₁) Tolerance | | ΔR ₁ | -30 | — | +30 | % | — |
| Gain-Bandwidth Product | | f _T | — | 250 | — | MHz | V _{CE} = 10V, I _E = -5mA, f = 100MHz |
| R1/R2 Only | | | | | | | |
| Input Voltage | DCX124EU | V _{I(OFF)} | 0.5 | 1.1 | — | V | V _{CC} = 5V, I _O = 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 _{I(ON)} | — | 1.9 | 3.0 | V | V _O = 0.3V, I _O = 5mA |
| | DCX144EU | | — | 1.9 | 3.0 | | V _O = 0.3V, I _O = 2mA |
| | DCX114YU | | — | — | 1.4 | | V _O = 0.3V, I _O = 1mA |
| | DCX123JU | | — | — | 1.1 | | V _O = 0.3V, I _O = 5mA |
| | DCX114EU | | — | 1.9 | 3.0 | | V _O = 0.3V, I _O = 10mA |
| | DCX143EU | | — | 1.99 | 3.0 | | V _O = 0.3V, I _O = 20mA |
| | DCX143ZU | | — | — | 1.3 | | V _O = 0.3V, I _O = 5mA |
| | DCX115EU | | — | — | 3 | | V _O = 0.3V, I _O = 1mA |
| Output Voltage | DCX124EU | V _{O(ON)} | — | 0.1 | 0.3 | V | I _O /I _I = 10mA / 0.5mA |
| | DCX144EU | | — | 0.1 | 0.3 | | I _O /I _I = 10mA / 0.5mA |
| | DCX114YU | | — | 0.1 | 0.3 | | I _O /I _I = 5mA / 0.25mA |
| | DCX123JU | | — | 0.1 | 0.3 | | I _O /I _I = 5mA / 0.25mA |
| | DCX114EU | | — | 0.1 | 0.3 | | I _O /I _I = 10mA / 0.5mA |
| | DCX143EU | | — | 0.1 | 0.3 | | I _O /I _I = 10mA / 0.5mA |
| | DCX143ZU | | — | 0.1 | 0.3 | | I _O /I _I = 5mA / 0.25mA |
| | DCX115EU | | — | 0.1 | 0.3 | | I _O /I _I = 10mA / 0.5mA |
| Input Current | DCX124EU | I _I | — | — | 0.36 | mA | V _I = 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 _{O(OFF)} | — | — | 0.5 | μA | V _{CC} = 50V, V _I = 0V |
| DC Current Gain | DCX124EU | G _I | 56 | — | — | — | V _O = 5V, I _O = 5mA |
| | DCX124EUQ | | 60 | | | | V _O = 5V, I _O = 5mA |
| | DCX144EU | | 68 | | | | V _O = 5V, I _O = 5mA |
| | DCX114YU | | 68 | | | | V _O = 5V, I _O = 10mA |
| | DCX114YUQ | | 80 | | | | V _O = 5V, I _O = 10mA |
| | DCX123JU | | 80 | | | | V _O = 5V, I _O = 10mA |
| | DCX114EU | | 30 | | | | V _O = 5V, I _O = 5mA |
| | DCX143EU | | 50 | | | | V _O = 5V, I _O = 10mA |
| | DCX143ZU | | 80 | | | | V _O = 5V, I _O = 10mA |
| DCX115EU | 82 | V _O = 5V, I _O = 5mA | | | | | |
| Input Resistor (R ₁) Tolerance | | ΔR ₁ | -30 | — | +30 | % | — |
| Resistance Ratio Tolerance | | ΔR ₂ /R ₁ | -20 | — | +20 | % | — |
| Gain-Bandwidth Product | | f _T | — | 250 | — | MHz | V _{CE} = 10V, I _E = 5mA, f = 100MHz |

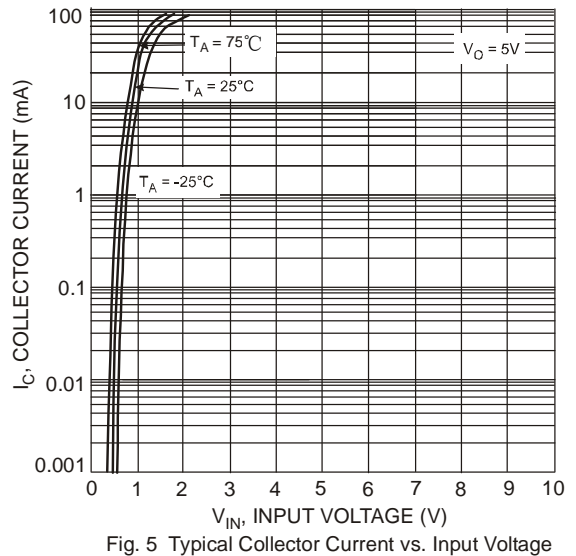
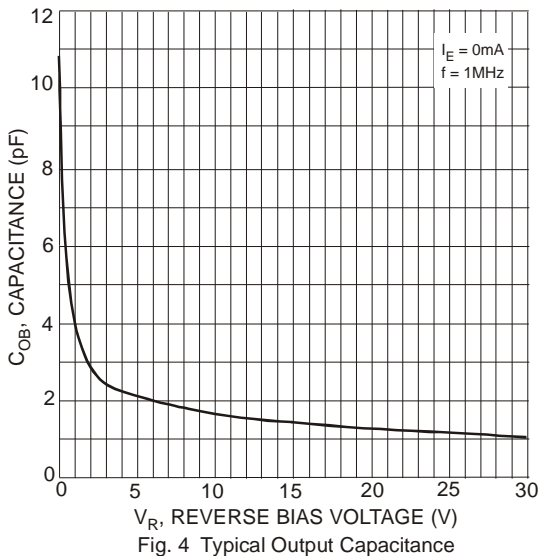
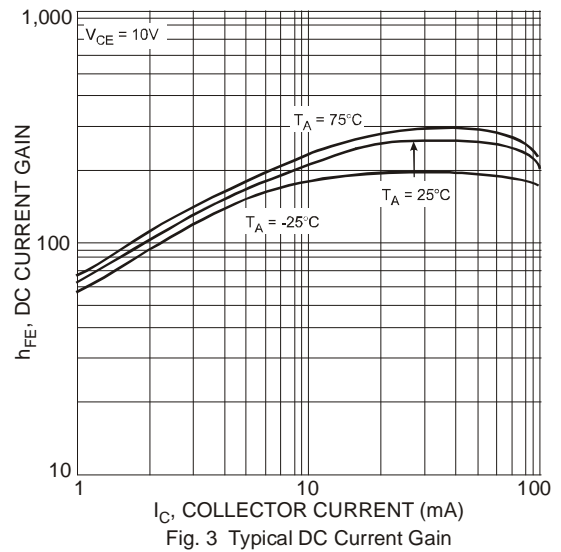
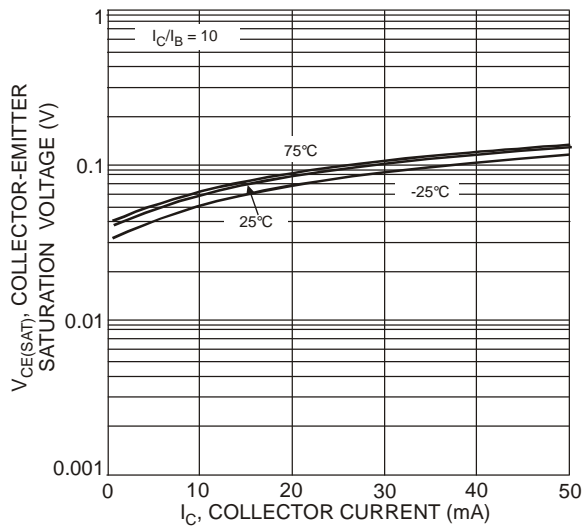
Electrical Characteristics PNP Section (@T_A = +25°C, unless otherwise specified.)

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

Typical Curves – Total Device



Typical Curves – DCX123JU PNP Section (@T_A = +25°C, unless otherwise specified.)



Typical Curves – DCX123JU PNP Section (Cont.)

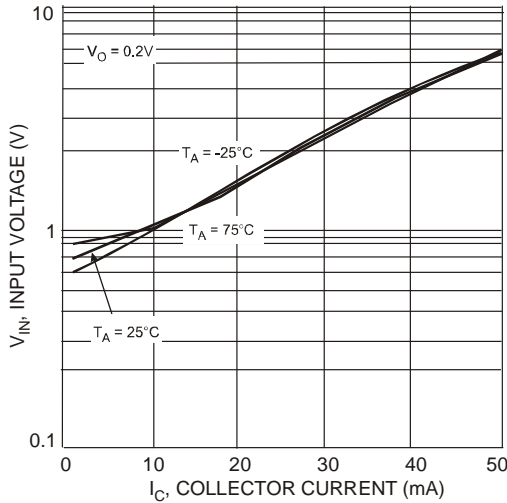


Fig. 6 Typical Input Voltage vs. Collector Current

Typical Curves – DCX123JU NPN Section (@T_A = +25°C, unless otherwise specified.)

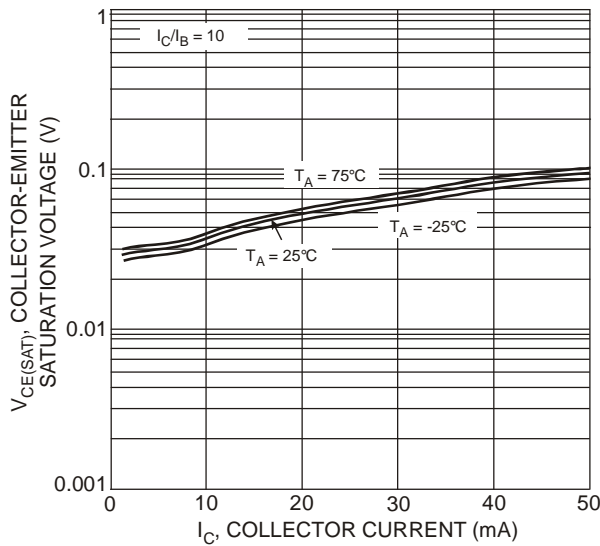


Fig. 7 Typical V_{CE(SAT)} vs. I_C

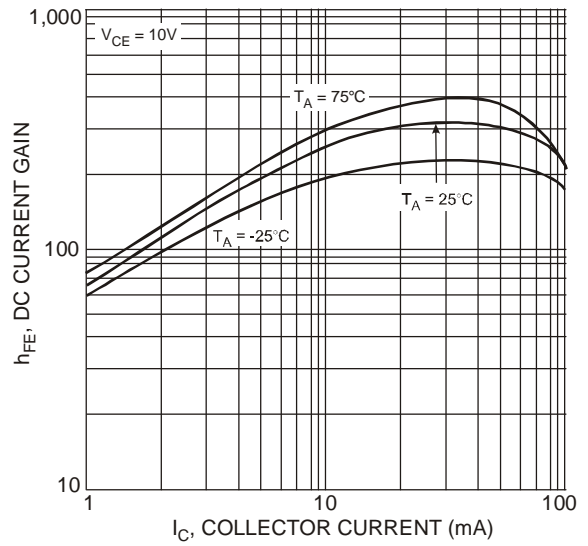


Fig. 8 Typical DC Current Gain

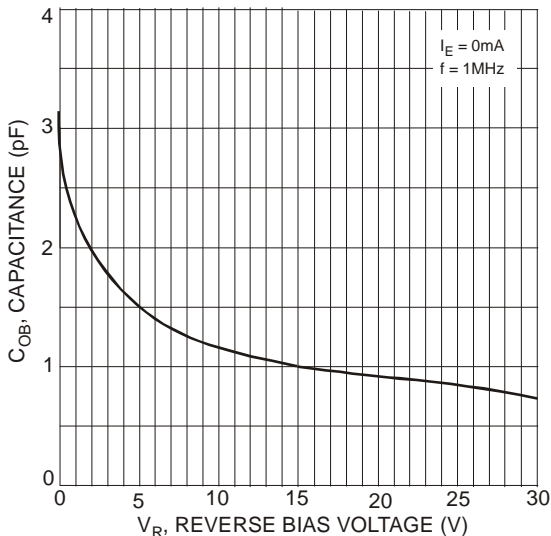


Fig. 9 Typical Output Capacitance

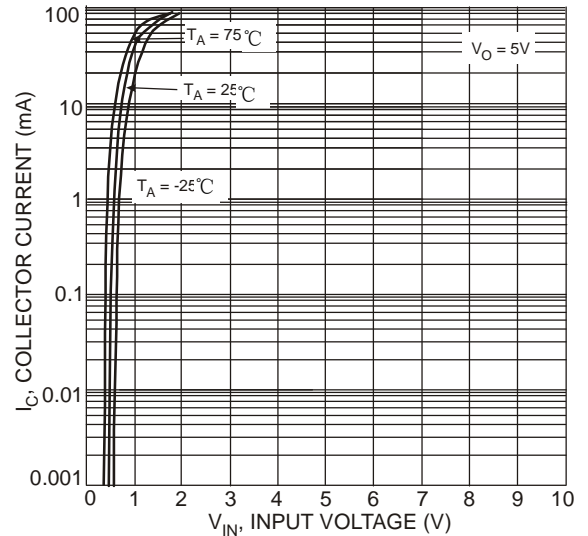


Fig. 10 Typical Collector Current vs. Input Voltage

Typical Curves – DCX123JU NPN Section (Cont.)

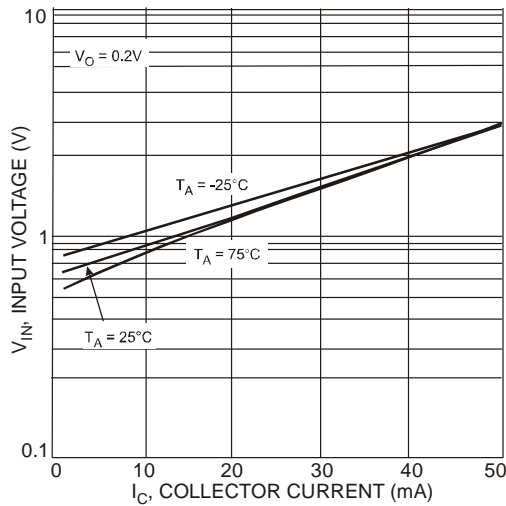


Fig. 11 Typical Input Voltage vs. Collector Current

Typical Curves – DCX143EU PNP Section (@T_A = +25°C, unless otherwise specified.)

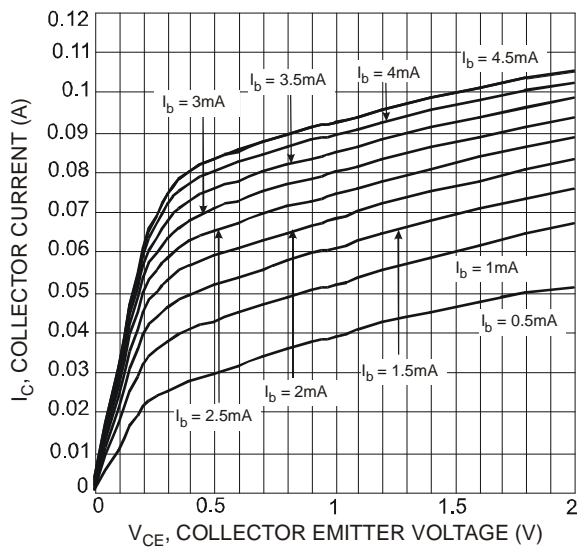


Fig. 12 Typical V_{CE} vs. I_C

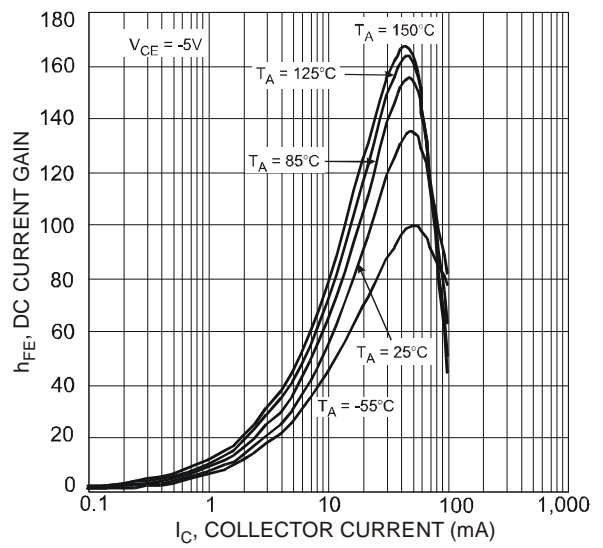


Fig. 13 Typical DC Current Gain

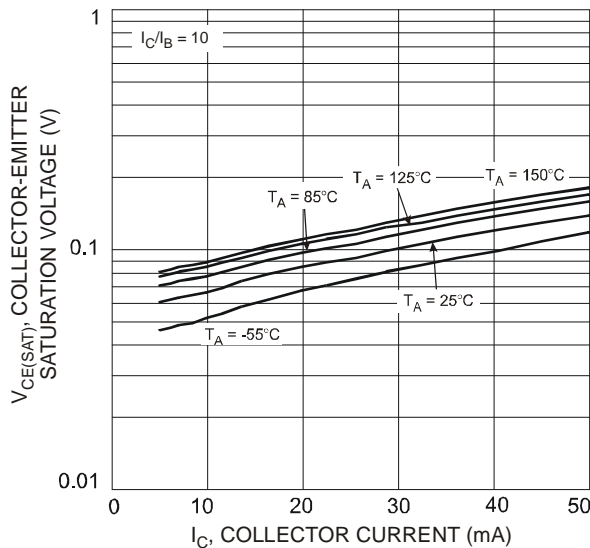


Fig. 14 Typical V_{CE(SAT)} vs. I_C

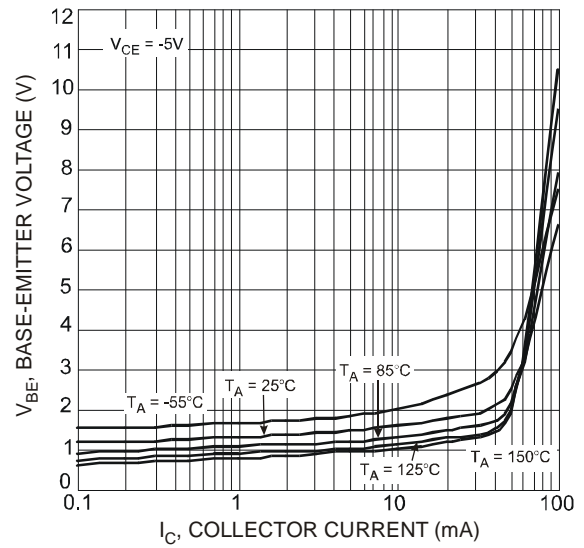


Fig. 15 Typical V_{BE} vs. I_C

Typical Curves – DCX143EU PNP Section (Cont.)

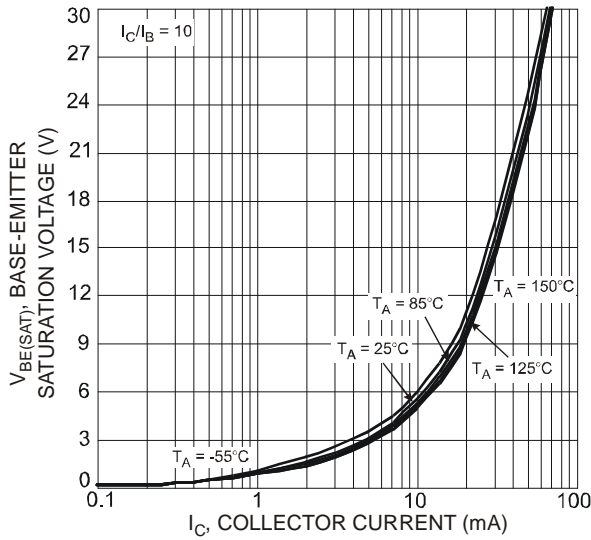


Fig. 16 Typical $V_{BE(SAT)}$ vs. I_C

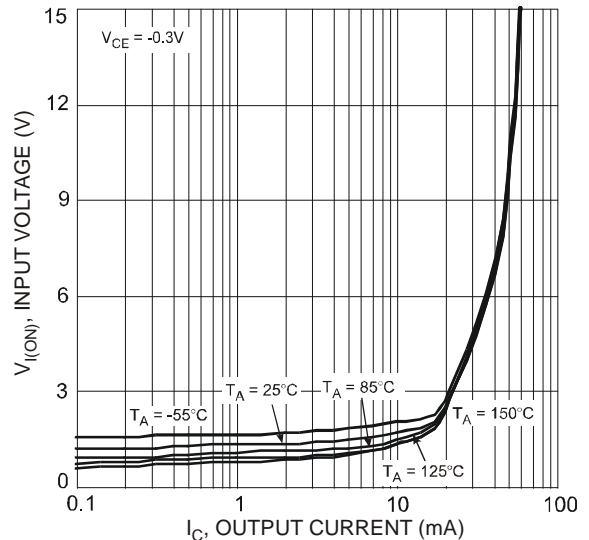


Fig. 17 Typical $V_{I(ON)}$ vs. I_C

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

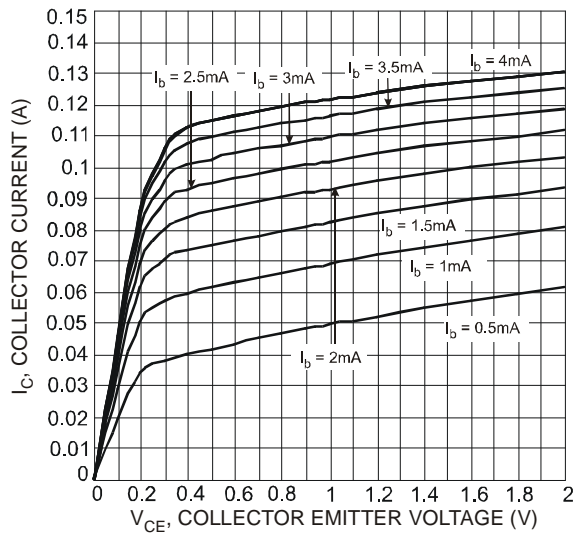


Fig. 18 Typical V_{CE} vs. I_C

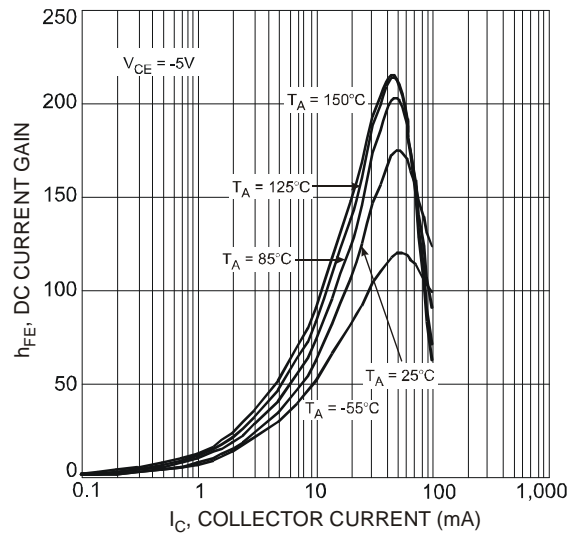


Fig. 19 Typical DC Current Gain

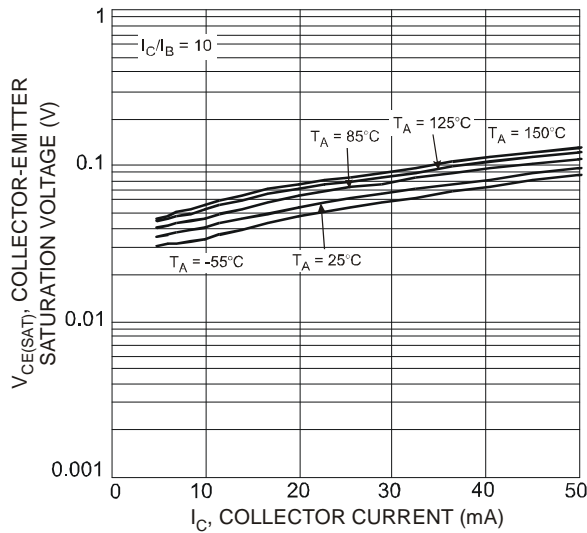


Fig. 20 Typical $V_{CE(SAT)}$ vs. I_C

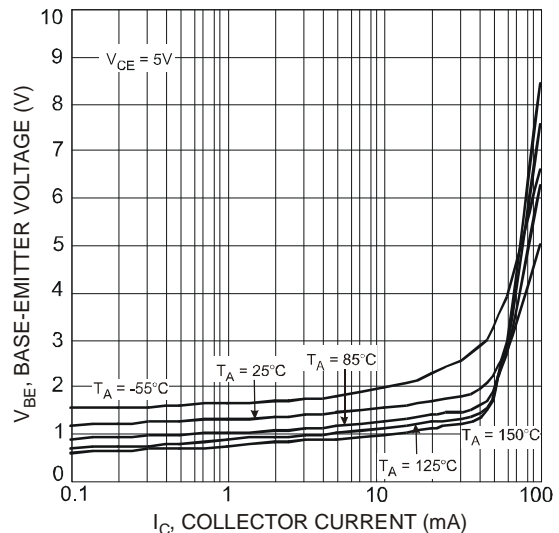


Fig. 21 Typical V_{BE} vs. I_C

Typical Curves – DCX143EU NPN Section (Cont.)

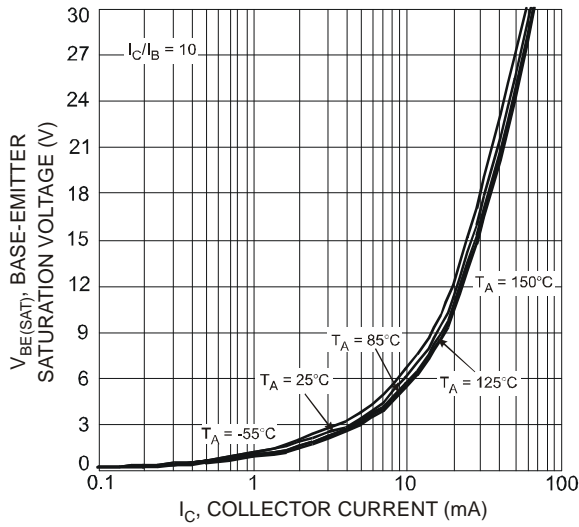


Fig. 22 Typical $V_{BE(SAT)}$ vs. I_C

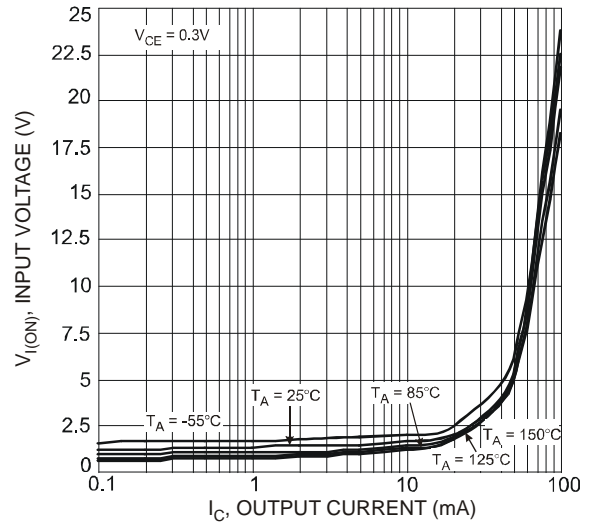


Fig. 23 Typical $V_{I(ON)}$ vs. I_C

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

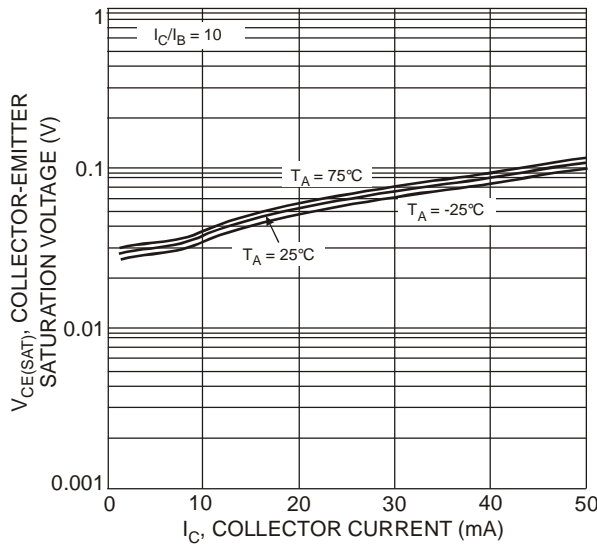


Fig. 24 Typical $V_{CE(SAT)}$ vs. I_C

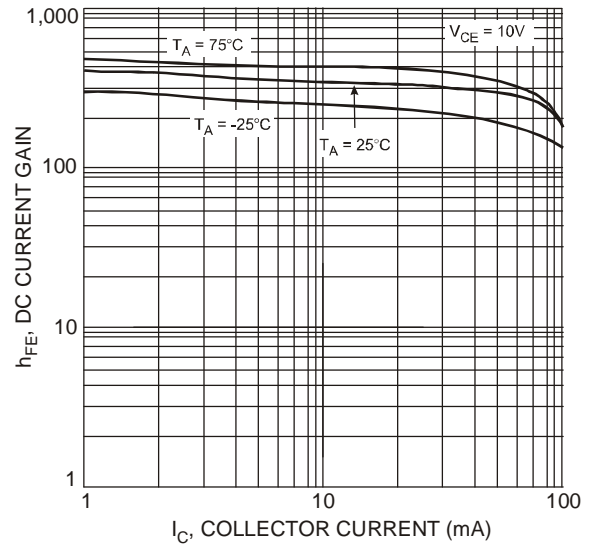


Fig. 25 Typical DC Current Gain

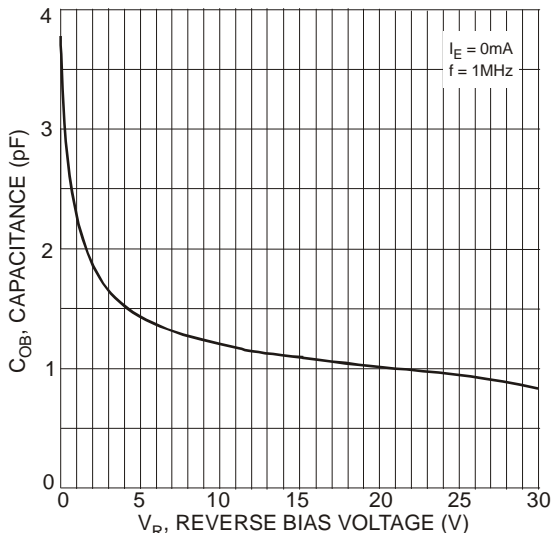


Fig. 26 Typical Output Capacitance

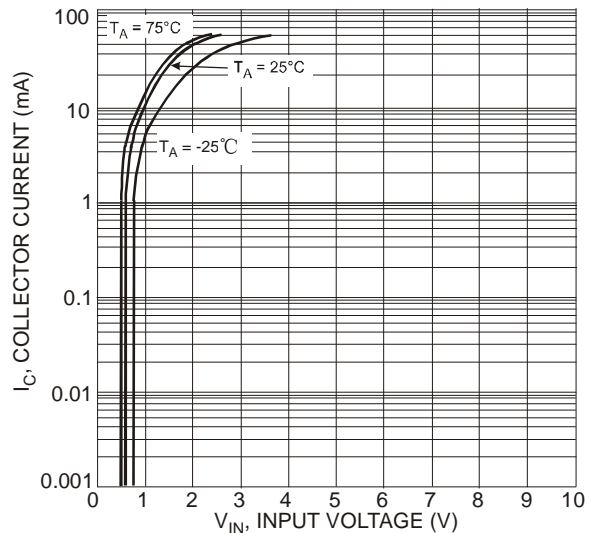


Fig. 27 Typical Collector Current vs. Input Voltage

Typical Curves – DCX114TU PNP Section (Cont.)

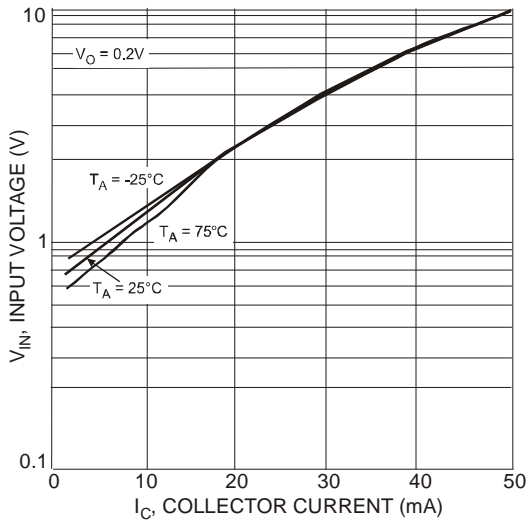


Fig. 28 Typical Input Voltage vs. Collector Current

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

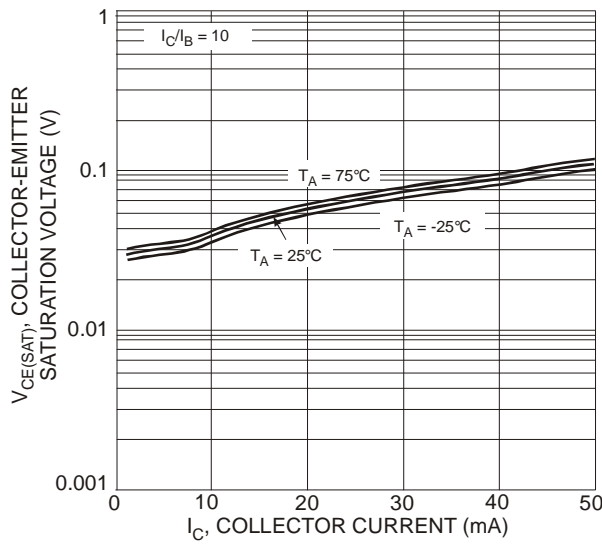


Fig. 29 Typical $V_{CE(SAT)}$ vs. I_C

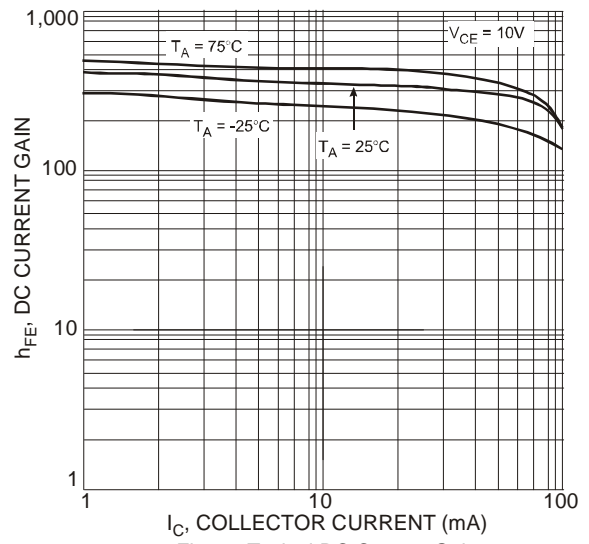


Fig. 30 Typical DC Current Gain

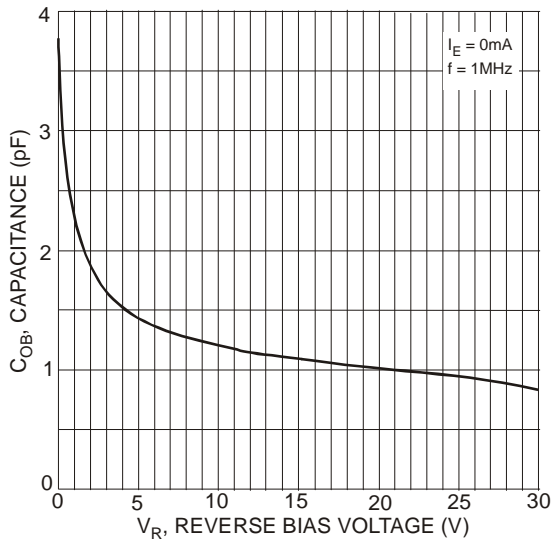


Fig. 31 Typical Output Capacitance

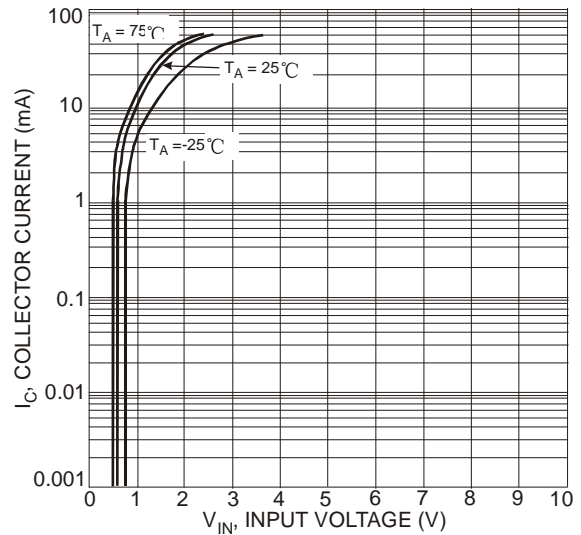


Fig. 32 Typical Collector Current vs. Input Voltage

Typical Curves – DCX114TU NPN Section (Cont.)

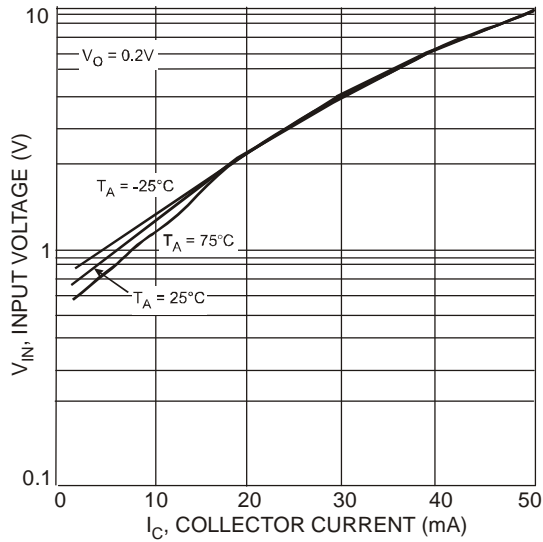
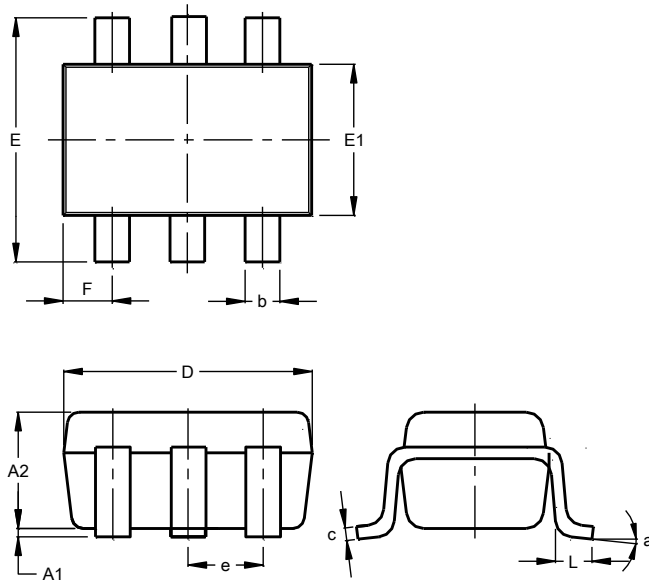


Fig. 33 Typical Input Voltage vs. Collector Current

Package Outline Dimensions

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

SOT363

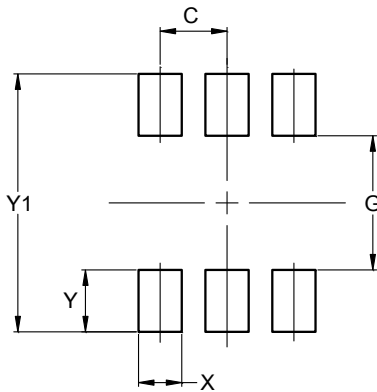


| SOT363 | | | |
|-----------------------------|-----------|------|-------|
| Dim | Min | Max | Typ |
| A1 | 0.00 | 0.10 | 0.05 |
| A2 | 0.90 | 1.00 | 0.95 |
| b | 0.10 | 0.30 | 0.25 |
| c | 0.10 | 0.22 | 0.11 |
| D | 1.80 | 2.20 | 2.15 |
| E | 2.00 | 2.20 | 2.10 |
| E1 | 1.15 | 1.35 | 1.30 |
| e | 0.650 BSC | | |
| F | 0.40 | 0.45 | 0.425 |
| L | 0.25 | 0.40 | 0.30 |
| a | 0° | 8° | -- |
| All Dimensions in mm | | | |

Suggested Pad Layout

Please see <http://www.diodes.com/package-outlines.html> 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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