

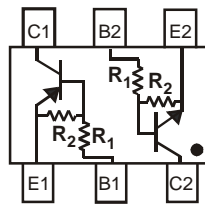
**DUAL COMPLEMENTARY PRE-BIASED TRANSISTOR**
**Features**

- Epitaxial Planar Die Construction
- Built-In Biasing Resistors
- **Available in Lead Free/RoHS Compliant Version (Note 1)**
- **“Green” Device (Note 2)**

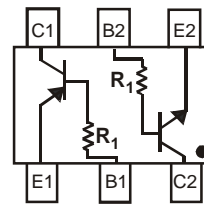
| Part Number | R1            | R2            | Marking |
|-------------|---------------|---------------|---------|
| DCX124EK    | 22K $\Omega$  | 22K $\Omega$  | C17     |
| DCX144EK    | 47K $\Omega$  | 47K $\Omega$  | C20     |
| DCX114YK    | 10K $\Omega$  | 47K $\Omega$  | C14     |
| DCX123JK    | 2.2K $\Omega$ | 47K $\Omega$  | C06     |
| DCX114EK    | 10K $\Omega$  | 10K $\Omega$  | C13     |
| DCX115EK    | 100K $\Omega$ | 100K $\Omega$ | C15     |
| DCX143TK    | 4.7K $\Omega$ | -             | C07     |
| DCX114TK    | 10K $\Omega$  | -             | C12     |

**Mechanical Data**

- Case: SC-74R (Note 3)
- Case Material: Molded Plastic, “Green” Molding Compound. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020D
- Terminals: Matte Tin Finish annealed over Copper leadframe (Lead Free Plating) Solderable per MIL-STD-202, Method 208
- Terminal Connections: See Diagram
- Marking Information: See Table and Page 11
- Ordering Information: See Page 11
- Weight: 0.015 grams (approximate)



R1, R2 Device Schematic



R1 only Device Schematic

**Maximum Ratings NPN Section** @ $T_A = 25^\circ\text{C}$  unless otherwise specified

| Characteristic | Symbol   | Value        | Unit       |    |
|----------------|----------|--------------|------------|----|
| Supply Voltage | $V_{CC}$ | 50           | V          |    |
| Input Voltage  | $V_{IN}$ | DCX124EK     | -10 to +40 |    |
|                |          | DCX144EK     | -10 to +40 |    |
|                |          | DCX114YK     | -6 to +40  |    |
|                |          | DCX123JK     | -5 to +12  |    |
|                |          | DCX114EK     | -10 to +40 |    |
|                |          | DCX115EK     | -10 to +40 |    |
|                |          | DCX143TK     | -5V max    |    |
|                |          | DCX114TK     | -5V max    |    |
| Output Current | $I_O$    | DCX124EK     | 30         |    |
|                |          | DCX144EK     | 30         |    |
|                |          | DCX114YK     | 70         |    |
|                |          | DCX123JK     | 100        |    |
|                |          | DCX114EK     | 50         |    |
|                |          | DCX115EK     | 20         |    |
|                |          | DCX143TK     | 100        |    |
| DCX114TK       | 100      |              |            |    |
| Output Current | All      | $I_{C(MAX)}$ | 100        | mA |

**Thermal Characteristics NPN Section**

| Characteristic                                       | Symbol          | Value       | Unit               |
|--|-----------------|-------------|--------------------|
| Power Dissipation (Total) (Note 4)                   | $P_D$           | 300         | mW                 |
| Thermal Resistance, Junction to Ambient Air (Note 4) | $R_{\theta JA}$ | 417         | $^\circ\text{C/W}$ |
| Operating and Storage Temperature Range              | $T_J, T_{STG}$  | -55 to +150 | $^\circ\text{C}$   |

- Notes:
1. No purposefully added lead.
  2. Diodes Inc.'s "Green" policy can be found on our website at [http://www.diodes.com/products/lead\\_free/index.php](http://www.diodes.com/products/lead_free/index.php).
  3. SC-74R and SOT-26 have identical dimensions and the only difference is the location of the pin one indicator. Please see the individual device datasheets for exact details regarding the location of the pin one indicator.
  4. Mounted on FR4 PC Board with recommended pad layout at <http://www.diodes.com/datasheets/ap02001.pdf>. 200mW per element must not be exceeded.

**Maximum Ratings PNP Section** @T<sub>A</sub> = 25°C unless otherwise specified

| Characteristic | Symbol          | Value                | Unit               |    |
|----------------|-----------------|----------------------|--------------------|----|
| Supply Voltage | V <sub>CC</sub> | 50                   | V                  |    |
| Input Voltage  | V <sub>IN</sub> | DCX124EK             | +10 to -40         |    |
|                |                 | DCX144EK             | +10 to -40         |    |
|                |                 | DCX114YK             | +6 to -40          |    |
|                |                 | DCX123JK             | +5 to -12          |    |
|                |                 | DCX114EK             | +10 to -40         |    |
|                |                 | DCX115EK             | +10 to -40         |    |
|                |                 | DCX143TK<br>DCX114TK | +5V max<br>+5V max |    |
| Output Current | I <sub>O</sub>  | DCX124EK             | -30                |    |
|                |                 | DCX144EK             | -30                |    |
|                |                 | DCX114YK             | -70                |    |
|                |                 | DCX123JK             | -100               |    |
|                |                 | DCX114EK             | -50                |    |
|                |                 | DCX115EK             | -20                |    |
|                |                 | DCX143TK<br>DCX114TK | -100<br>-100       |    |
| Output Current | All             | I <sub>C(MAX)</sub>  | -100               | mA |

**Thermal Characteristics PNP Section**

| Characteristic                                       | Symbol                            | Value       | Unit |
|--|-----------------------------------|-------------|------|
| Power Dissipation (Total) (Note 4)                   | P <sub>D</sub>                    | 300         | mW   |
| Thermal Resistance, Junction to Ambient Air (Note 4) | R <sub>θJA</sub>                  | 833         | °C/W |
| Operating and Storage Temperature Range              | T <sub>J</sub> , T <sub>STG</sub> | -55 to +150 | °C   |

**Electrical Characteristics NPN Section** @T<sub>A</sub> = 25°C unless otherwise specified

| Characteristic (DDC143TK & DDC114TK only)  | Symbol               | Min | Typ | Max | Unit | Test Condition  |
|--|----------------------|-----|-----|-----|------|---|
| 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 – DCX143TK<br>I <sub>C</sub> /I <sub>B</sub> = 1mA / 0.1mA – DCX114TK |
| 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  |

\* Transistor - For Reference Only

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

| Characteristic                             |  | Symbol                         | Min                                    | Typ                                | Max   | Unit                                   | Test Condition   |
|--|--|--------------------------------|--|------------------------------------|---|--|--|
| Input Voltage                              | DCX124EK<br>DCX144EK<br>DCX114YK<br>DCX123JK<br>DCX114EK<br>DCX115EK | V <sub>I(OFF)</sub>            | 0.5<br>0.5<br>0.3<br>0.5<br>0.5<br>0.5 | 1.1<br>1.1<br>—<br>—<br>1.1<br>1.1 | —   | V                                      | V <sub>CC</sub> = 5V, I <sub>O</sub> = 100μA   |
|  | DCX124EK<br>DCX144EK<br>DCX114YK<br>DCX123JK<br>DCX114EK<br>DCX115EK |                                | V <sub>I(ON)</sub>                     | —                                  | 1.65<br>1.9<br>—<br>—<br>1.9<br>1.9         | 3.0<br>3.0<br>1.4<br>1.1<br>3.0<br>3.0 | V  |
| Output Voltage                             | DCX124EK<br>DCX144EK<br>DCX114YK<br>DCX123JK<br>DCX114EK<br>DCX115EK | V <sub>O(ON)</sub>             |  | —                                  | 0.1   | 0.3                                    | V  |
| Input Current                              | DCX124EK<br>DCX144EK<br>DCX114YK<br>DCX123JK<br>DCX114EK<br>DCX115EK | I <sub>I</sub>                 | —                                      | —                                  | 0.36<br>0.18<br>0.88<br>3.6<br>0.88<br>0.15 | mA                                     | V <sub>I</sub> = 5V  |
| Output Current                             |  | I <sub>O(OFF)</sub>            | —                                      | —                                  | 0.5   | μA                                     | V <sub>CC</sub> = 50V, V <sub>I</sub> = 0V   |
| DC Current Gain                            | DCX124EK<br>DCX144EK<br>DCX114YK<br>DCX123JK<br>DCX114EK<br>DCX115EK | G <sub>I</sub>                 | 80<br>68<br>68<br>80<br>30<br>82       | —                                  | —   | —                                      | V <sub>O</sub> = 5V, I <sub>O</sub> = 5mA<br>V <sub>O</sub> = 5V, I <sub>O</sub> = 5mA<br>V <sub>O</sub> = 5V, I <sub>O</sub> = 10mA<br>V <sub>O</sub> = 5V, I <sub>O</sub> = 10mA<br>V <sub>O</sub> = 5V, I <sub>O</sub> = 5mA<br>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                 |  | R <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   |

\* Transistor - For Reference Only

**Electrical Characteristics PNP Section** @T<sub>A</sub> = 25°C unless otherwise specified

| Characteristic (DCX143TK & DCX114TK only)  |  | Symbol               | Min | Typ | Max  | Unit | Test Condition  |
|--|--|----------------------|-----|-----|------|------|---|
| Collector-Base Breakdown Voltage           |  | BV <sub>CB0</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>CB0</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 - DCX143TK<br>I <sub>C</sub> /I <sub>B</sub> = -1mA / -0.1mA - DCX114TK |
| 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  |

\* Transistor - For Reference Only

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

| Characteristic                             |  | Symbol                         | Min  | Typ                                    | Max   | Unit | Test Condition   |
|--|--|--------------------------------|--|--|---|------|--|
| Input Voltage                              | DCX124EK<br>DCX144EK<br>DCX114YK<br>DCX123JK<br>DCX114EK<br>DCX115EK | V <sub>I(OFF)</sub>            | -0.5<br>-0.5<br>-0.3<br>-0.5<br>-0.5<br>-0.5 | -1.1<br>-1.1<br>—<br>—<br>-1.1<br>-1.1 | —<br>—<br>—<br>—<br>—<br>—                        | V    | V <sub>CC</sub> = -5V, I <sub>O</sub> = -100μA   |
|  | DCX124EK<br>DCX144EK<br>DCX114YK<br>DCX123JK<br>DCX114EK<br>DCX115EK | V <sub>I(ON)</sub>             | —<br>—<br>—<br>—<br>-1.9<br>-1.9             | -1.9<br>-1.9<br>—<br>—<br>-3.0<br>-3.0 | -3.0<br>-3.0<br>-1.4<br>-1.1<br>-3.0<br>-3.0      | V    | V <sub>O</sub> = -0.3V, I <sub>O</sub> = -5mA<br>V <sub>O</sub> = -0.3V, I <sub>O</sub> = -2mA<br>V <sub>O</sub> = -0.3V, I <sub>O</sub> = -1mA<br>V <sub>O</sub> = -0.3V, I <sub>O</sub> = -5mA<br>V <sub>O</sub> = -0.3V, I <sub>O</sub> = -10mA<br>V <sub>O</sub> = -0.3V, I <sub>O</sub> = -1mA            |
| Output Voltage                             | DCX124EK<br>DCX144EK<br>DCX114YK<br>DCX123JK<br>DCX114EK<br>DCX115EK | V <sub>O(ON)</sub>             | —  | -0.1                                   | -0.3  | V    | I <sub>O</sub> /I <sub>I</sub> = -10mA / -0.5mA<br>I <sub>O</sub> /I <sub>I</sub> = -10mA / -0.5mA<br>I <sub>O</sub> /I <sub>I</sub> = -5mA / -0.25mA<br>I <sub>O</sub> /I <sub>I</sub> = -5mA / -0.25mA<br>I <sub>O</sub> /I <sub>I</sub> = -10mA / -0.5mA<br>I <sub>O</sub> /I <sub>I</sub> = -5mA / -0.25mA |
| Input Current                              | DCX124EK<br>DCX144EK<br>DCX114YK<br>DCX123JK<br>DCX114EK<br>DCX115EK | I <sub>I</sub>                 | —  | —                                      | -0.36<br>-0.18<br>-0.88<br>-3.6<br>-0.88<br>-0.15 | mA   | V <sub>I</sub> = -5V   |
| Output Current                             |  | I <sub>O(OFF)</sub>            | —  | —                                      | -0.5  | μA   | V <sub>CC</sub> = 50V, V <sub>I</sub> = 0V   |
| DC Current Gain                            | DCX124EK<br>DCX144EK<br>DCX114YK<br>DCX123JK<br>DCX114EK<br>DCX115EK | G <sub>I</sub>                 | 80<br>68<br>68<br>80<br>30<br>82             | —                                      | —   | —    | V <sub>O</sub> = -5V, I <sub>O</sub> = -5mA<br>V <sub>O</sub> = -5V, I <sub>O</sub> = -5mA<br>V <sub>O</sub> = -5V, I <sub>O</sub> = -10mA<br>V <sub>O</sub> = -5V, I <sub>O</sub> = -10mA<br>V <sub>O</sub> = -5V, I <sub>O</sub> = -5mA<br>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                 |  | R <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  |

\*Transistor - For Reference Only

**Typical Curves – Total Device**

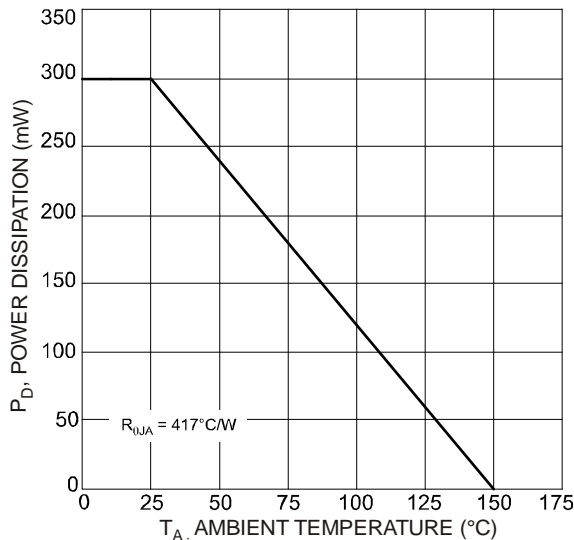


Fig. 1 Power Dissipation vs. Ambient Temperature

**Typical Curves – DCX124EK PNP Section**

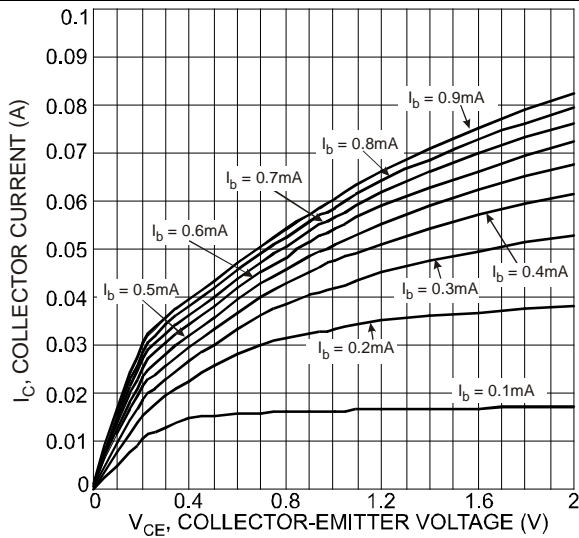


Fig. 2 Typical Collector Current vs. Collector-Emitter Voltage

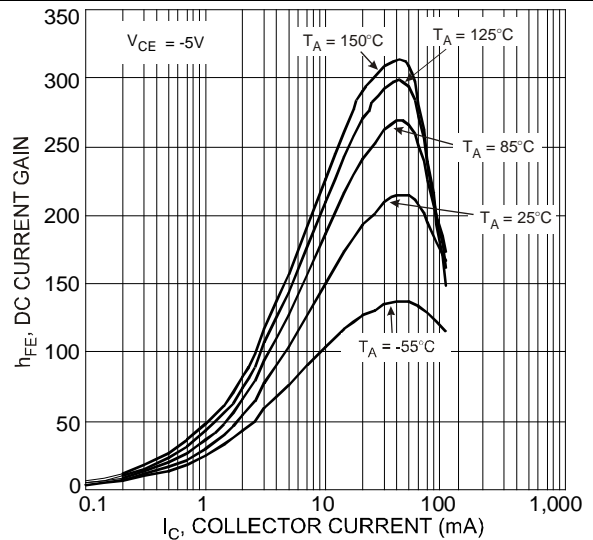


Fig. 3 Typical DC Current Gain vs. Collector Current

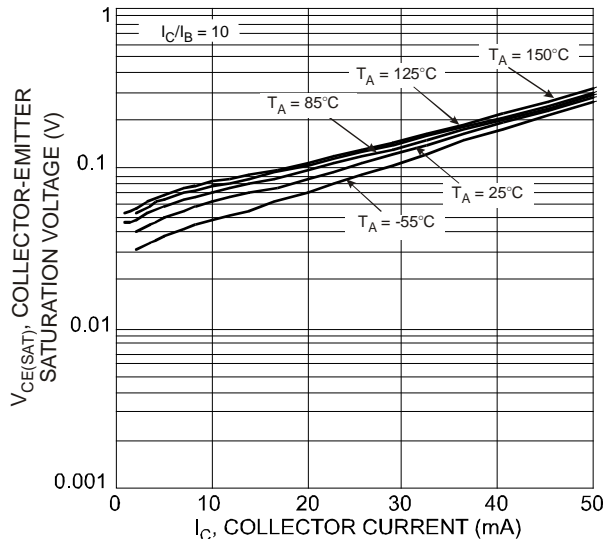


Fig. 4 Typical Collector-Emitter Saturation Voltage vs. Collector Current

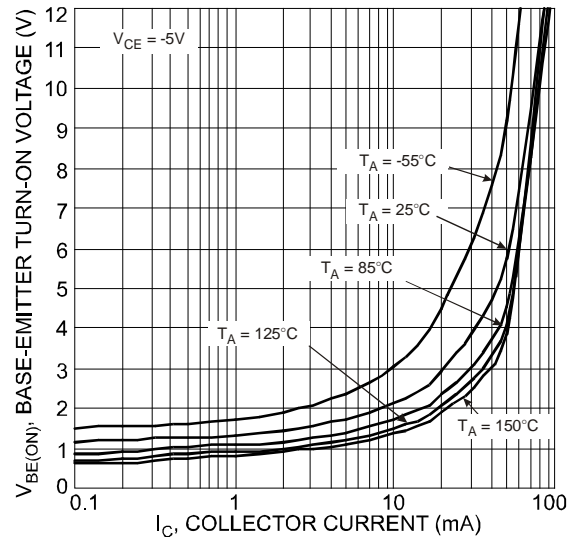


Fig. 5 Typical Base-Emitter Turn-On Voltage vs. Collector Current

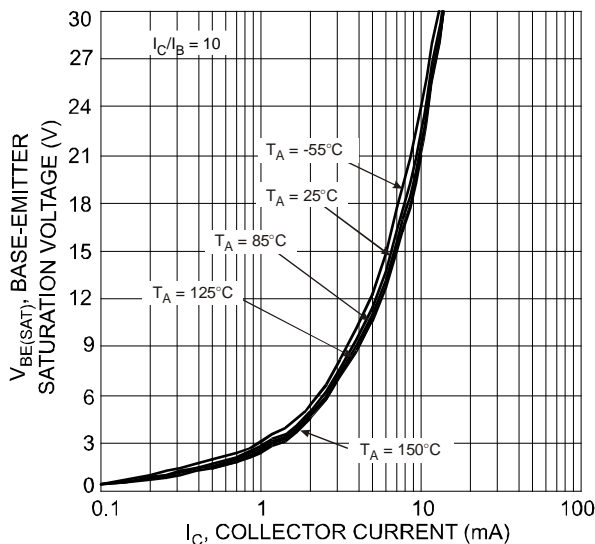


Fig. 6 Typical Base-Emitter Saturation Voltage vs. Collector Current

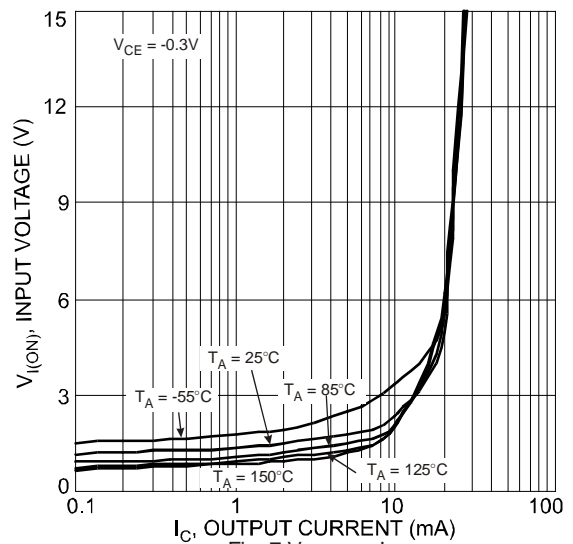


Fig. 7  $V_{I(ON)}$  vs.  $I_C$

**Typical Curves – DCX124EK NPN Section**

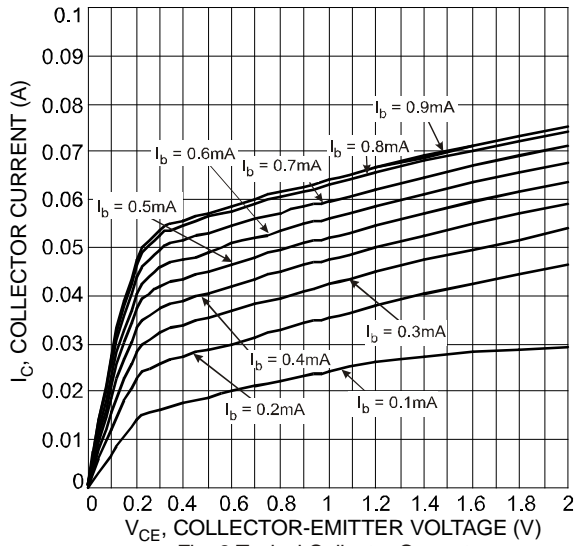


Fig. 8 Typical Collector Current vs. Collector-Emitter Voltage

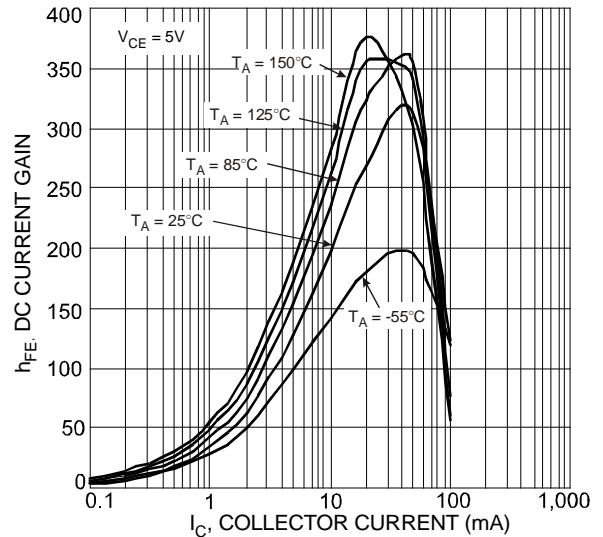


Fig. 9 Typical DC Current Gain vs. Collector Current

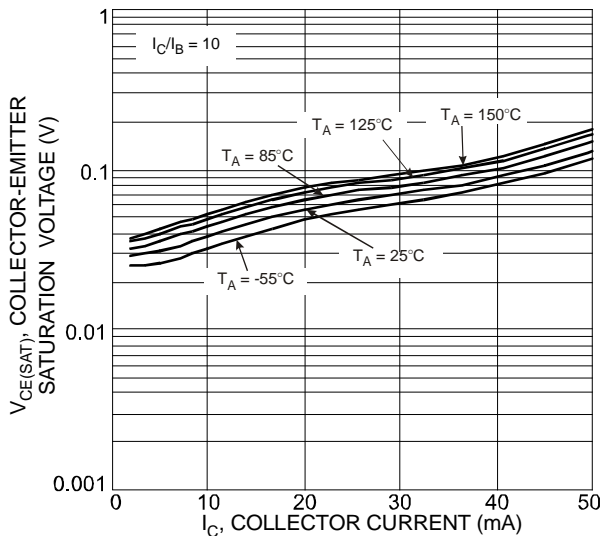


Fig. 10 Collector-Emitter Saturation Voltage vs. Collector Current

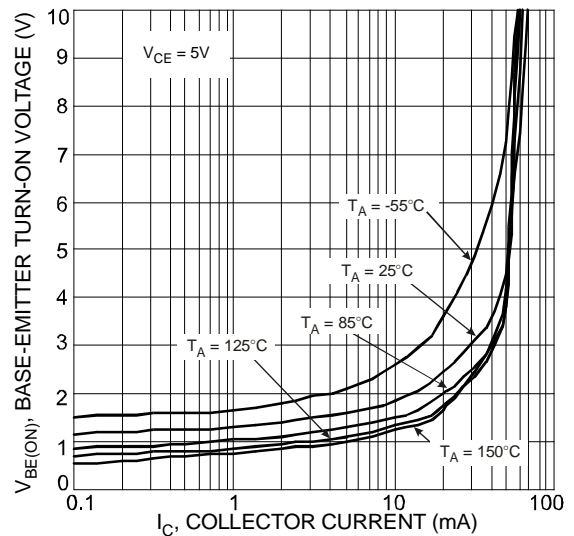


Fig. 11 Base-Emitter Turn-On Voltage vs. Collector Current

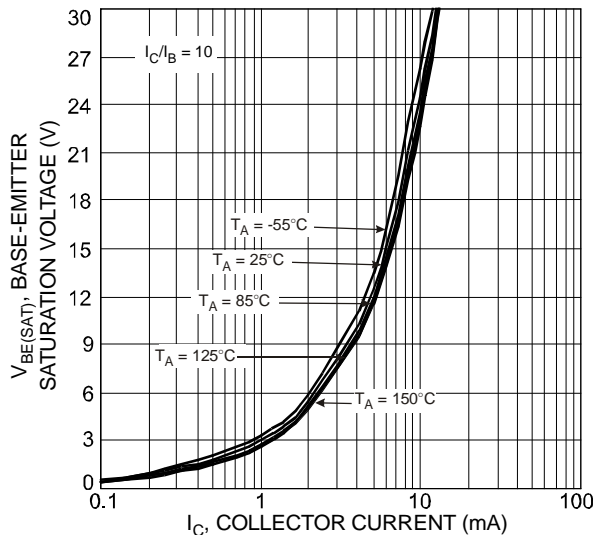


Fig. 12 Typical Base-Emitter Saturation Voltage vs. Collector Current

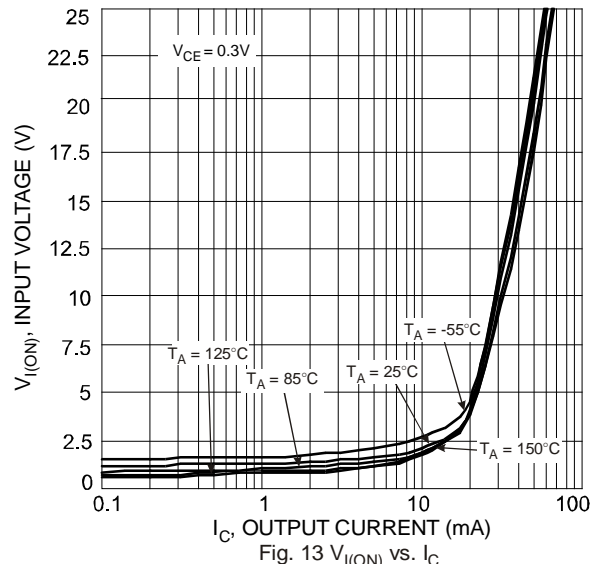


Fig. 13  $V_{I(ON)}$  vs.  $I_C$

Typical Curves – DCX123JK PNP Section

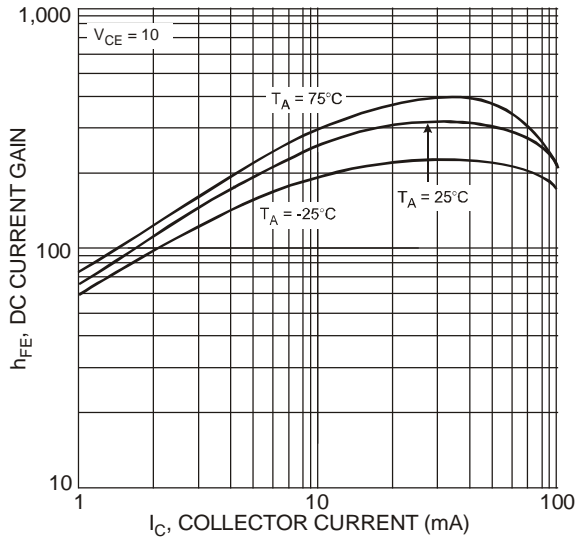


Fig. 14 Typical DC Current Gain vs. Collector Current

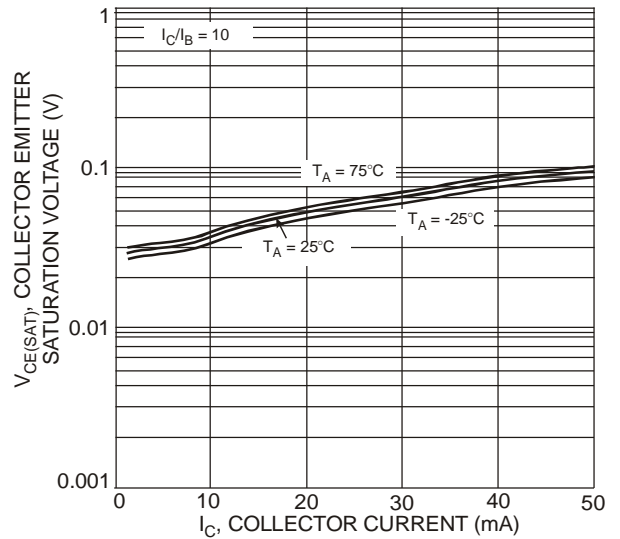


Fig. 15 Typical Collector Emitter Saturation Voltage vs. Collector Current

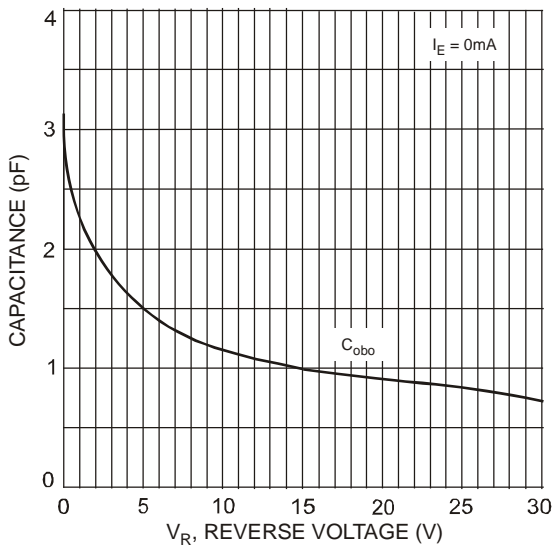


Fig. 16 Typical Capacitance Characteristics

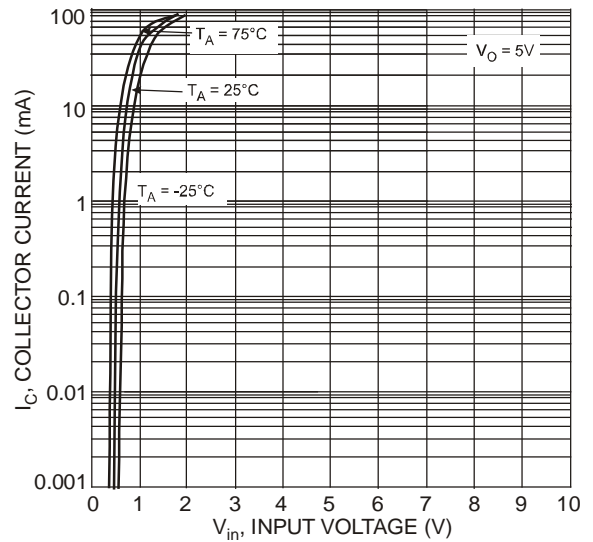


Fig. 17 Collector Current vs. Input Voltage

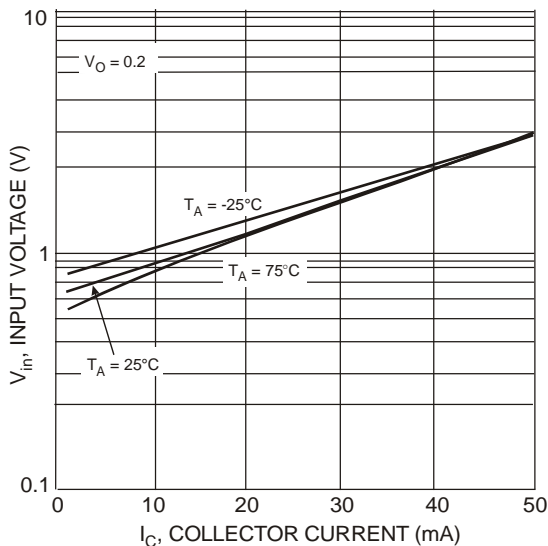


Fig. 18 Input Voltage vs. Collector Current

**Typical Curves – DCX123JK NPN Section**

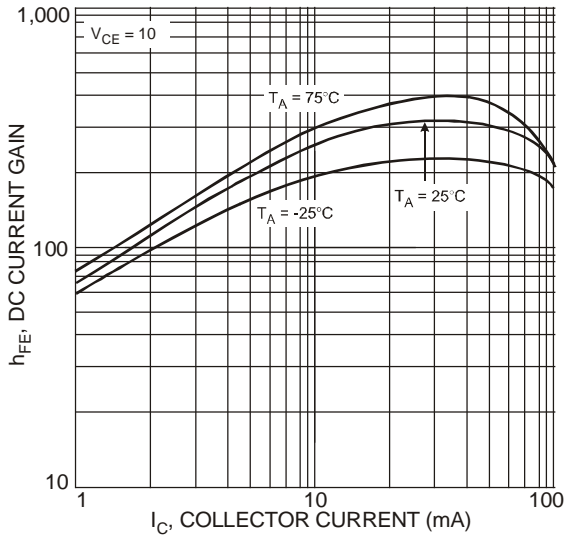


Fig. 19 Typical DC Current Gain vs. Collector Current

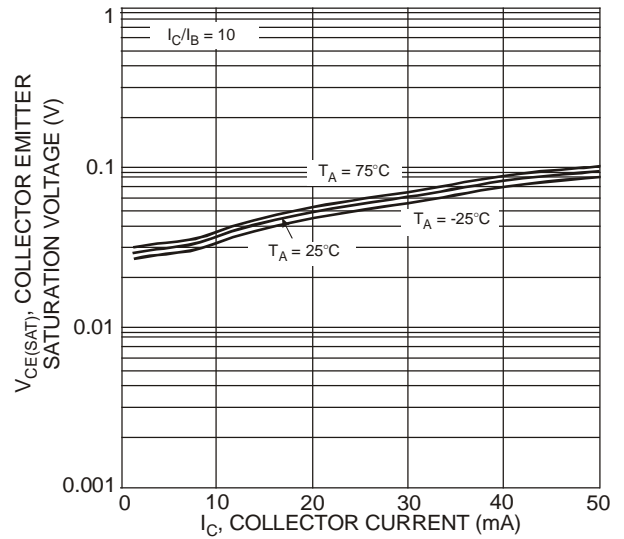


Fig. 20 Collector Emitter Saturation Voltage vs. Collector Current

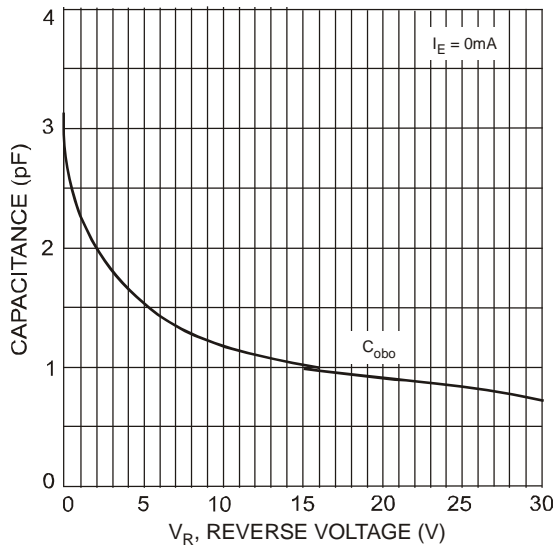


Fig. 21 Typical Capacitance Characteristics

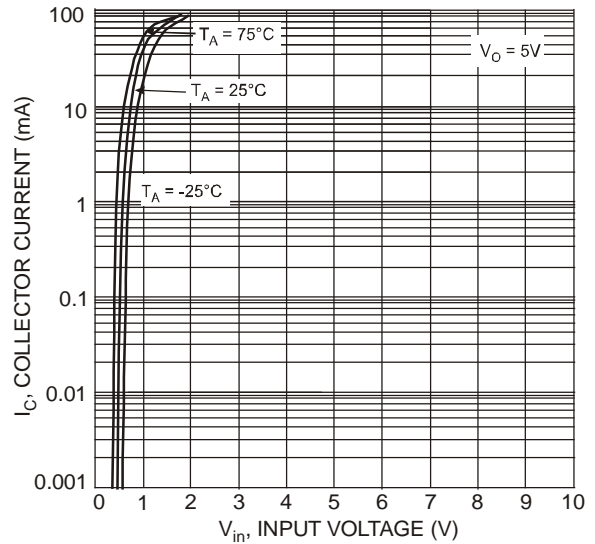


Fig. 22 Collector Current vs. Input Voltage

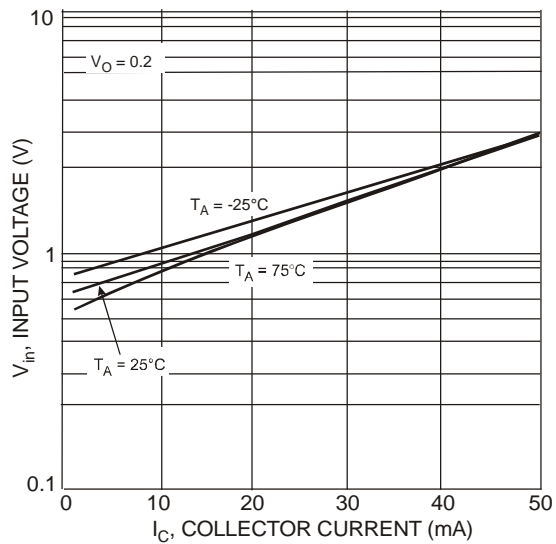


Fig. 23 Input Voltage vs. Collector Current



**Typical Curves – DCX114TK PNP Section**

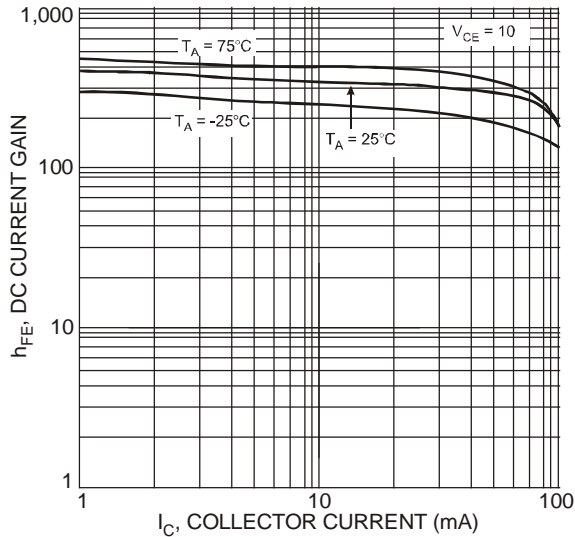


Fig. 24 Typical DC Current Gain vs. Collector Current

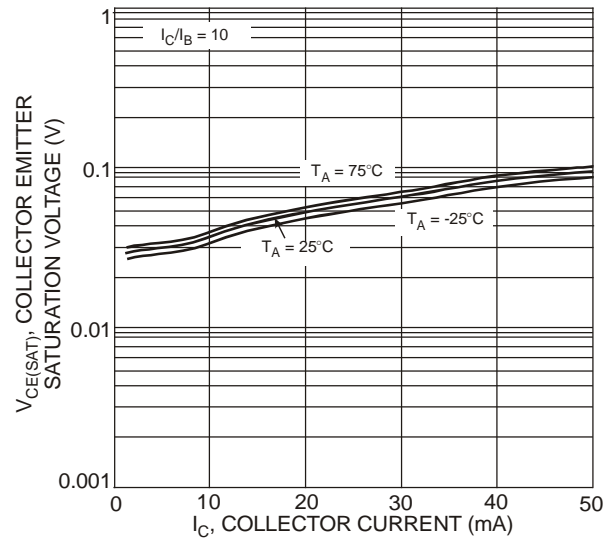


Fig. 25 Typical Collector Emitter Saturation Voltage vs. Collector Current

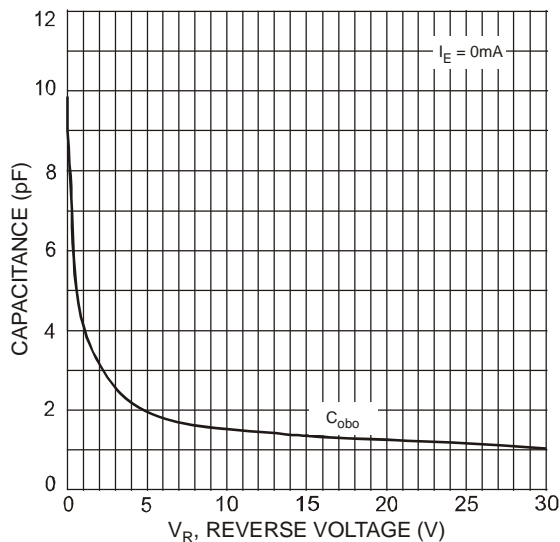


Fig. 26 Typical Capacitance Characteristics

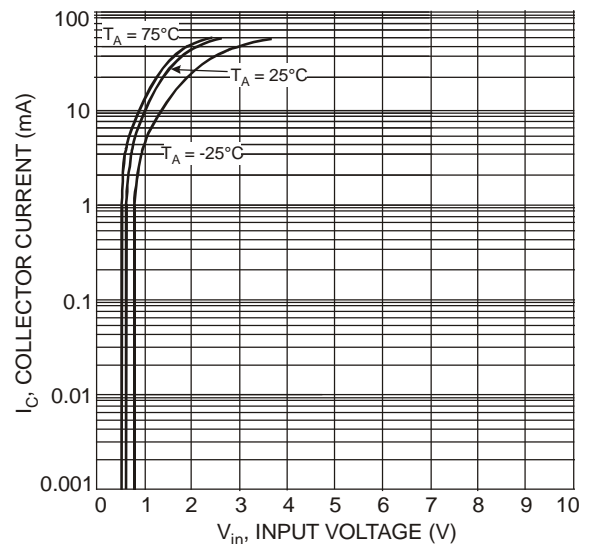


Fig. 27 Collector Current vs. Input Voltage

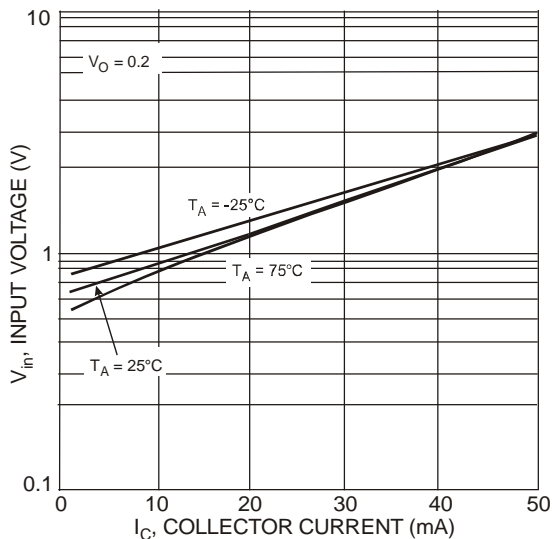


Fig. 28 Input Voltage vs. Collector Current

**Typical Curves- DCX114TK NPN Section**

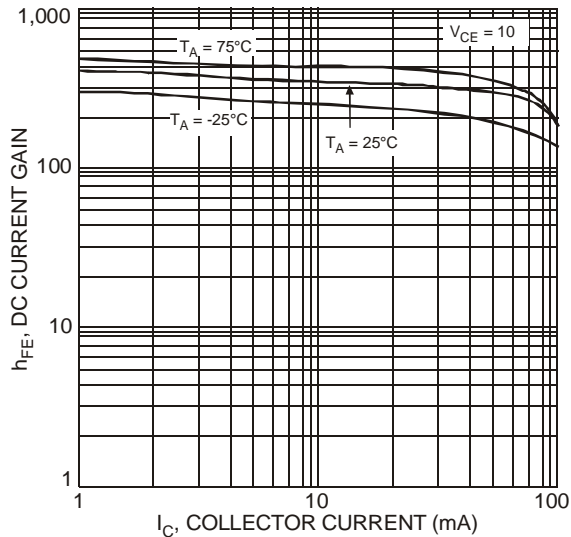


Fig. 29 Typical DC Current Gain vs. Collector Current

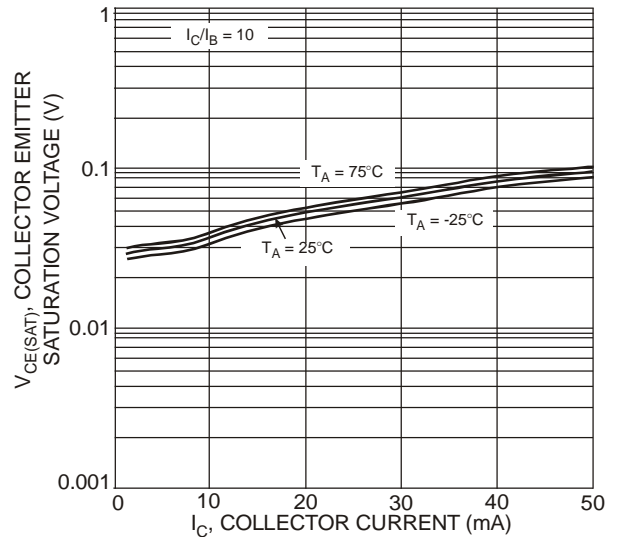


Fig. 30 Typical Collector Emitter Saturation Voltage vs. Collector Current

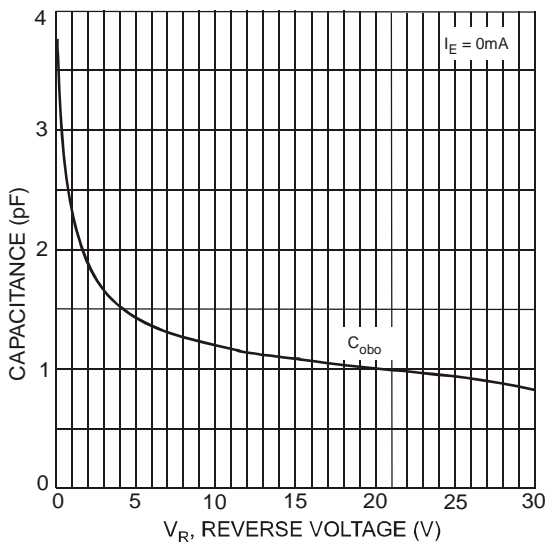


Fig. 31 Typical Capacitance Characteristics

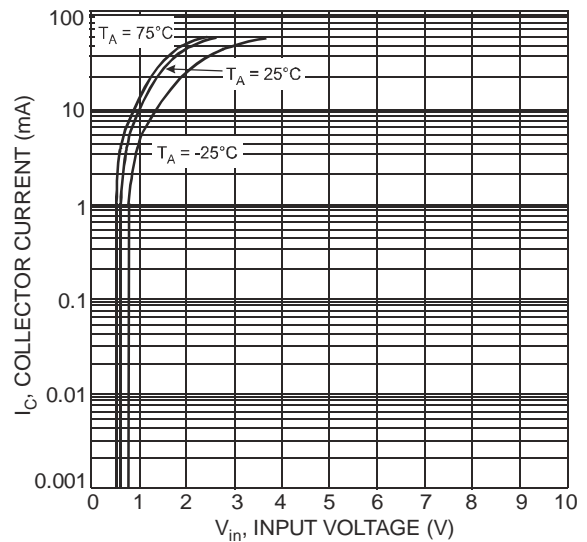


Fig. 32 Collector Current vs. Input Voltage

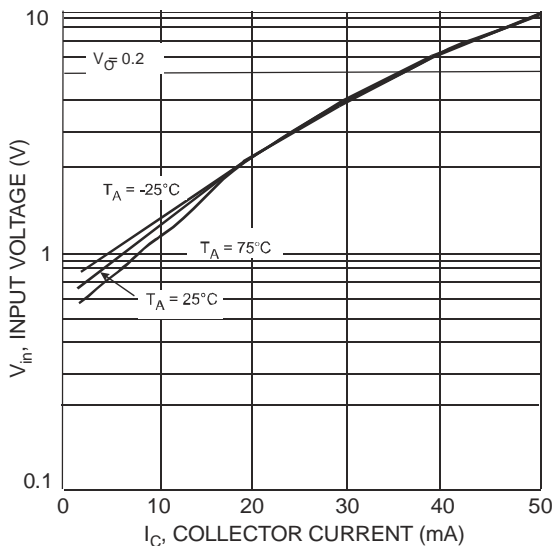


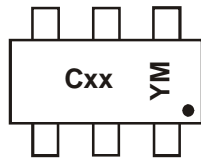
Fig. 33 Input Voltage vs. Collector Current

### Ordering Information (Notes 5 & 6)

| Part Number | Case   | Packaging        |
|-------------|--------|------------------|
| DCX124EK-7  | SC-74R | 3000/Tape & Reel |
| DCX144EK-7  | SC-74R | 3000/Tape & Reel |
| DCX114YK-7  | SC-74R | 3000/Tape & Reel |
| DCX123JK-7  | SC-74R | 3000/Tape & Reel |
| DCX114EK-7  | SC-74R | 3000/Tape & Reel |
| DCX115EK-7  | SC-74R | 3000/Tape & Reel |
| DCX143TK-7  | SC-74R | 3000/Tape & Reel |
| DCX114TK-7  | SC-74R | 3000/Tape & Reel |

- Notes: 5. For packaging details, go to our website at <http://www.diodes.com/datasheets/ap02007.pdf>.  
 6. For Lead Free/RoHS Compliant version part numbers, please add "-F" suffix to the part numbers above. Example: DCX114TK-7-F.

### Marking Information



Cxx = Product Type Marking Code (See Page 1)  
 YM = Date Code Marking  
 Y = Year (ex: T = 2006)  
 M = Month (ex: 9 = September)

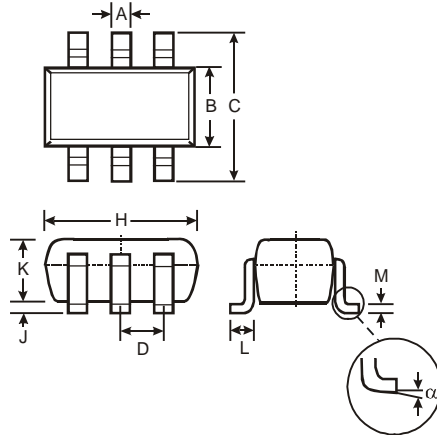
#### Date Code Key

| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|------|------|------|------|------|------|------|------|------|------|------|
| Code | T    | U    | V    | W    | X    | Y    | Z    | A    | B    | C    |

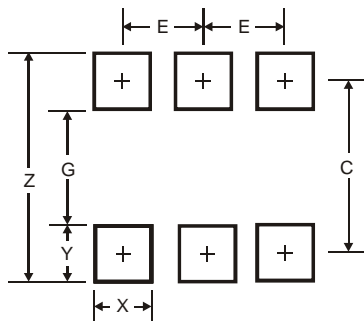
| Month | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Code  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | O   | N   | D   |

### Package Outline Dimensions



| SC-74R               |       |      |      |
|----------------------|-------|------|------|
| Dim                  | Min   | Max  | Typ  |
| A                    | 0.35  | 0.50 | 0.38 |
| B                    | 1.50  | 1.70 | 1.60 |
| C                    | 2.70  | 3.00 | 2.80 |
| D                    | —     | —    | 0.95 |
| H                    | 2.90  | 3.10 | 3.00 |
| J                    | 0.013 | 0.10 | 0.05 |
| K                    | 1.00  | 1.30 | 1.10 |
| L                    | 0.35  | 0.55 | 0.40 |
| M                    | 0.10  | 0.20 | 0.15 |
| $\alpha$             | 0°    | 8°   | —    |
| All Dimensions in mm |       |      |      |

### Suggested Pad Layout



| Dimensions | Value (in mm) |
|------------|---------------|
| Z          | 3.20          |
| G          | 1.60          |
| X          | 0.55          |
| Y          | 0.80          |
| C          | 2.40          |
| E          | 0.95          |

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.