

# DTC114EET1 Series, SDTC114EET1 Series

## Bias Resistor Transistor NPN Silicon Surface Mount Transistor with Monolithic Bias Resistor Network

This new series of digital transistors is designed to replace a single device and its external resistor bias 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. The BRT eliminates these individual components by integrating them into a single device. The use of a BRT can reduce both system cost and board space. The device is housed in the SC-75/SOT-416 package which is designed for low power surface mount applications.

### Features

- Simplifies Circuit Design
- Reduces Board Space
- Reduces Component Count
- The SC-75/SOT-416 Package Can be Soldered Using Wave or Reflow
- The Modified Gull-Winged Leads Absorb Thermal Stress During Soldering Eliminating the Possibility of Damage to the Die
- Pb-Free Packages are Available
- S Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable

### MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

| 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

| Rating                                                                                                         | Symbol          | Value       | Unit                       |
|----------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------------|
| Total Device Dissipation,<br>FR-4 Board (Note 1) @ $T_A = 25^\circ\text{C}$<br>Derate above $25^\circ\text{C}$ | $P_D$           | 200<br>1.6  | mW<br>mW/ $^\circ\text{C}$ |
| Thermal Resistance,<br>Junction-to-Ambient (Note 1)                                                            | $R_{\theta JA}$ | 600         | $^\circ\text{C/W}$         |
| Total Device Dissipation,<br>FR-4 Board (Note 2) @ $T_A = 25^\circ\text{C}$<br>Derate above $25^\circ\text{C}$ | $P_D$           | 300<br>2.4  | mW<br>mW/ $^\circ\text{C}$ |
| Thermal Resistance,<br>Junction-to-Ambient (Note 2)                                                            | $R_{\theta JA}$ | 400         | $^\circ\text{C/W}$         |
| Junction and Storage Temperature<br>Range                                                                      | $T_J, T_{stg}$  | -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.

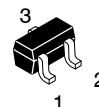
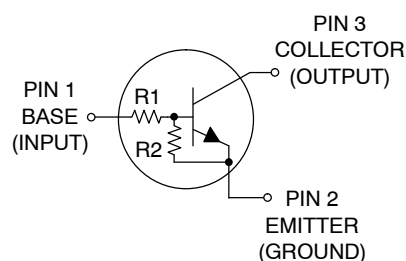
1. FR-4 @ Minimum Pad
2. FR-4 @  $1.0 \times 1.0$  Inch Pad



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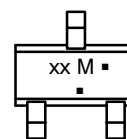
<http://onsemi.com>

## NPN SILICON BIAS RESISTOR TRANSISTORS



SC-75 (SOT-416)  
CASE 463  
STYLE 1

### MARKING DIAGRAM



- xx = Specific Device Code  
xx = (Refer to page 2)  
M = Date Code\*  
■ = Pb-Free Package

(Note: Microdot may be in either location)

\*Date Code orientation may vary depending upon manufacturing location.

### ORDERING INFORMATION

See detailed ordering, marking, and shipping information in the package dimensions section on page 2 of this data sheet.

## DTC114EET1 Series, SDTC114EET1 Series

### ORDERING INFORMATION, DEVICE MARKING and RESISTOR VALUES

| Device       | Marking | R1 (K) | R2 (K) | Package                    | Shipping†        |
|--------------|---------|--------|--------|----------------------------|------------------|
| DTC114EET1   | 8A      | 10     | 10     | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC114EET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| SDTC114EET1G |         |        |        |                            |                  |
| DTC124EET1   | 8B      | 22     | 22     | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC124EET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| SDTC124EET1G |         |        |        |                            |                  |
| DTC144EET1   | 8C      | 47     | 47     | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC144EET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| DTC114YET1   | 8D      | 10     | 47     | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC114YET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| SDTC114YET1G |         |        |        |                            |                  |
| DTC114TET1   | 94      | 10     | ∞      | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC114TET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| DTC143TET1   | 8F      | 4.7    | ∞      | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC143TET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| DTC123EET1   | 8H      | 2.2    | 2.2    | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC123EET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| DTC143EET1   | 8J      | 4.7    | 4.7    | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC143EET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| DTC143ZET1   | 8K      | 4.7    | 47     | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC143ZET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| DTC124XET1   | 8L      | 22     | 47     | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC124XET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| DTC123JET1   | 8M      | 2.2    | 47     | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC123JET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| DTC115EET1   | 8N      | 100    | 100    | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC115EET1G  |         |        |        | SC-75/SOT-416<br>(Pb-Free) | 3000 Tape & Reel |
| DTC144WET1   | 8P      | 47     | 22     | SC-75/SOT-416              | 3000 Tape & Reel |
| DTC144WET1G  |         |        |        | SC-75/SOT-416              | 3000 Tape & Reel |

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

## DTC114EET1 Series, SDTC114EET1 Series

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise noted)

| Characteristic                                                                        | Symbol        | Min | Typ | Max  | Unit |
|---------------------------------------------------------------------------------------|---------------|-----|-----|------|------|
| <b>OFF CHARACTERISTICS</b>                                                            |               |     |     |      |      |
| Collector–Base Cutoff Current ( $V_{CB} = 50\text{ V}$ , $I_E = 0$ )                  | $I_{CBO}$     | –   | –   | 100  | nAdc |
| Collector–Emitter Cutoff Current ( $V_{CE} = 50\text{ V}$ , $I_B = 0$ )               | $I_{CEO}$     | –   | –   | 500  | nAdc |
| Emitter–Base Cutoff Current<br>( $V_{EB} = 6.0\text{ V}$ , $I_C = 0$ )                | $I_{EBO}$     | –   | –   | 0.5  | mAdc |
| DTC114EET1, SDTC114EET1                                                               |               | –   | –   | 0.2  |      |
| DTC124EET1, SDTC124EET1                                                               |               | –   | –   | 0.1  |      |
| DTC144EET1                                                                            |               | –   | –   | 0.2  |      |
| DTC114YET1, SDTC114YET1                                                               |               | –   | –   | 0.9  |      |
| DTC114TET1                                                                            |               | –   | –   | 1.9  |      |
| DTC143TET1                                                                            |               | –   | –   | 2.3  |      |
| DTC123EET1                                                                            |               | –   | –   | 1.5  |      |
| DTC143EET1                                                                            |               | –   | –   | 0.18 |      |
| DTC143ZET1                                                                            |               | –   | –   | 0.13 |      |
| DTC124XET1                                                                            |               | –   | –   | 0.2  |      |
| DTC123JET1                                                                            |               | –   | –   | 0.05 |      |
| DTC115EET1                                                                            |               | –   | –   | 0.13 |      |
| DTC144WET1                                                                            |               | –   | –   |      |      |
| Collector–Base Breakdown Voltage ( $I_C = 10\text{ }\mu\text{A}$ , $I_E = 0$ )        | $V_{(BR)CBO}$ | 50  | –   | –    | Vdc  |
| Collector–Emitter Breakdown Voltage (Note 3)<br>( $I_C = 2.0\text{ mA}$ , $I_B = 0$ ) | $V_{(BR)CEO}$ | 50  | –   | –    | Vdc  |

**ON CHARACTERISTICS** (Note 3)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                           |               |                                                                                             |                                                                                        |                                                                                                                                   |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----|
| DC Current Gain<br>( $V_{CE} = 10\text{ V}$ , $I_C = 5.0\text{ mA}$ )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DTC114EET1, SDTC114EET1<br>DTC124EET1, SDTC124EET1<br>DTC144EET1<br>DTC114YET1, SDTC114YET1<br>DTC114TET1<br>DTC143TET1<br>DTC123EET1<br>DTC143EET1<br>DTC143ZET1<br>DTC124XET1<br>DTC123JET1<br>DTC115EET1<br>DTC144WET1 | $h_{FE}$      | 35<br>60<br>80<br>80<br>160<br>160<br>8.0<br>15<br>80<br>80<br>80<br>80<br>80               | 60<br>100<br>140<br>140<br>350<br>350<br>15<br>30<br>200<br>150<br>140<br>150<br>140   | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                     |     |
| Collector-Emitter Saturation Voltage ( $I_C = 10\text{ mA}$ , $I_B = 0.3\text{ mA}$ )<br>( $I_C = 10\text{ mA}$ , $I_B = 5\text{ mA}$ ) DTC123EET1<br>( $I_C = 10\text{ mA}$ , $I_B = 1\text{ mA}$ ) DTC143TET1/DTC114TET1/<br>DTC143EET1/DTC143ZET1/DTC124XET1                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                           | $V_{CE(sat)}$ | -                                                                                           | -                                                                                      | 0.25                                                                                                                              | Vdc |
| Output Voltage (on)<br>( $V_{CC} = 5.0\text{ V}$ , $V_B = 2.5\text{ V}$ , $R_L = 1.0\text{ k}\Omega$ )<br>DTC114EET1, SDTC114EET1<br>DTC124EET1, SDTC124EET1<br>DTC114YET1, SDTC114YET1<br>DTC114TET1<br>DTC143TET1<br>DTC123EET1<br>DTC143EET1<br>DTC143ZET1<br>DTC124XET1<br>DTC123JET1<br><br>( $V_{CC} = 5.0\text{ V}$ , $V_B = 3.5\text{ V}$ , $R_L = 1.0\text{ k}\Omega$ ) DTC144EET1<br>( $V_{CC} = 5.0\text{ V}$ , $V_B = 5.5\text{ V}$ , $R_L = 1.0\text{ k}\Omega$ ) DTC115EET1<br>( $V_{CC} = 5.0\text{ V}$ , $V_B = 4.0\text{ V}$ , $R_L = 1.0\text{ k}\Omega$ ) DTC144WET1 |                                                                                                                                                                                                                           | $V_{OL}$      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2<br>0.2 | Vdc |
| Output Voltage (off) ( $V_{CC} = 5.0\text{ V}$ , $V_B = 0.5\text{ V}$ , $R_L = 1.0\text{ k}\Omega$ )<br>( $V_{CC} = 5.0\text{ V}$ , $V_B = 0.25\text{ V}$ , $R_L = 1.0\text{ k}\Omega$ )<br>DTC143TET1<br>DTC143ZET1<br>DTC114TET1                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                           | $V_{OH}$      | 4.9                                                                                         | -                                                                                      | -                                                                                                                                 | Vdc |

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

# DTC114EET1 Series, SDTC114EET1 Series

## ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise noted) (Continued)

| Characteristic |                                   | Symbol | Min   | Typ   | Max   | Unit |
|----------------|-----------------------------------|--------|-------|-------|-------|------|
| Input Resistor | SDTC114EET1, SDTC114ET1           | R1     | 7.0   | 10    | 13    | kΩ   |
|                | DTC124EET1, SDTC124EET1           |        | 15.4  | 22    | 28.6  |      |
|                | DTC144EET1                        |        | 32.9  | 47    | 61.1  |      |
|                | DTC114YET1, SDTC114YET1           |        | 7.0   | 10    | 13    |      |
|                | DTC114TET1                        |        | 7.0   | 10    | 13    |      |
|                | DTC143TET1                        |        | 3.3   | 4.7   | 6.1   |      |
|                | DTC123EET1                        |        | 1.5   | 2.2   | 2.9   |      |
|                | DTC143EET1                        |        | 3.3   | 4.7   | 6.1   |      |
|                | DTC143ZET1                        |        | 3.3   | 4.7   | 6.1   |      |
|                | DTC124XET1                        |        | 15.4  | 22    | 28.6  |      |
|                | DTC123JET1                        |        | 1.54  | 2.2   | 2.86  |      |
|                | DTC115EET1                        |        | 70    | 100   | 130   |      |
|                | DTC144WET1                        |        | 32.9  | 47    | 61.1  |      |
| Resistor Ratio | DTC114EET1/SDTC114EET1/DTC115EET1 | R1/R2  | 0.8   | 1.0   | 1.2   |      |
|                | DTC124EET1/SDTC124EET1/DTC144EET1 |        | 0.17  | 0.21  | 0.25  |      |
|                | DTC114YET1/SDTC114YET1            |        | —     | —     | —     |      |
|                | DTC143TET1/DTC114TET1             |        | 0.8   | 1.0   | 1.2   |      |
|                | DTC123EET1/DTC143EET1             |        | 0.055 | 0.1   | 0.185 |      |
|                | DTC143ZET1                        |        | 0.38  | 0.47  | 0.56  |      |
|                | DTC124XET1                        |        | 0.038 | 0.047 | 0.056 |      |
|                | DTC123JET1                        |        | 1.7   | 2.1   | 2.6   |      |
|                | DTC144WET1D                       |        |       |       |       |      |

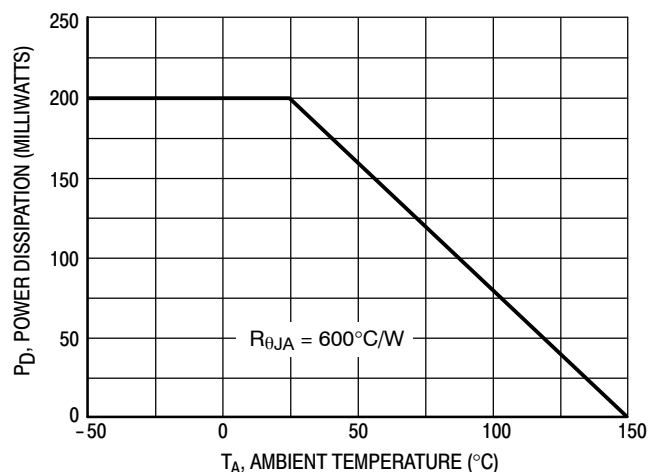


Figure 1. Derating Curve

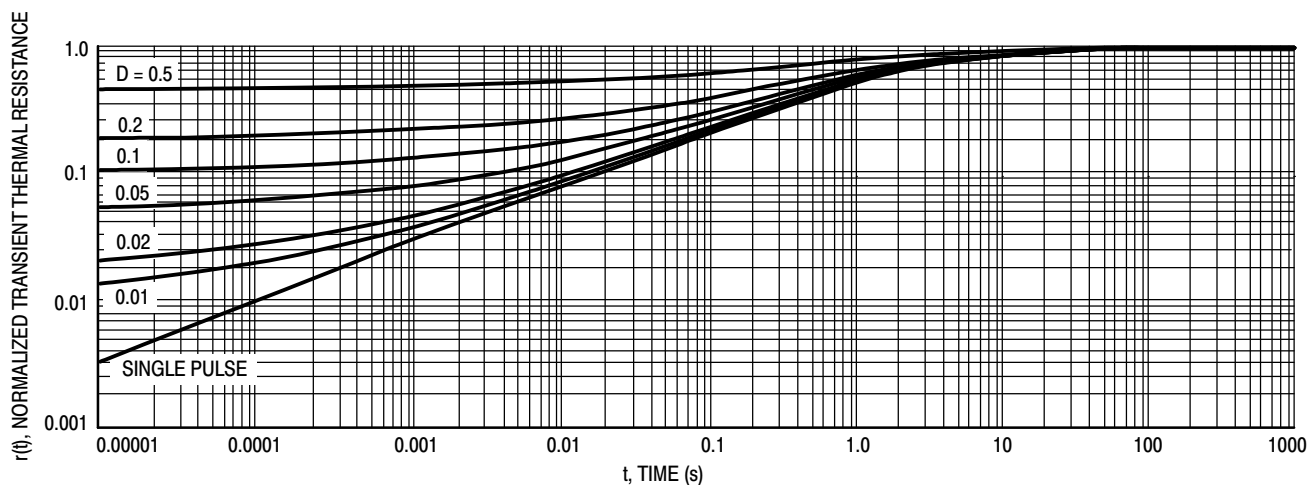


Figure 2. Normalized Thermal Response

# DTC114EET1 Series, SDTC114EET1 Series

## TYPICAL ELECTRICAL CHARACTERISTICS – DTC114EET1, SDTC114EET1

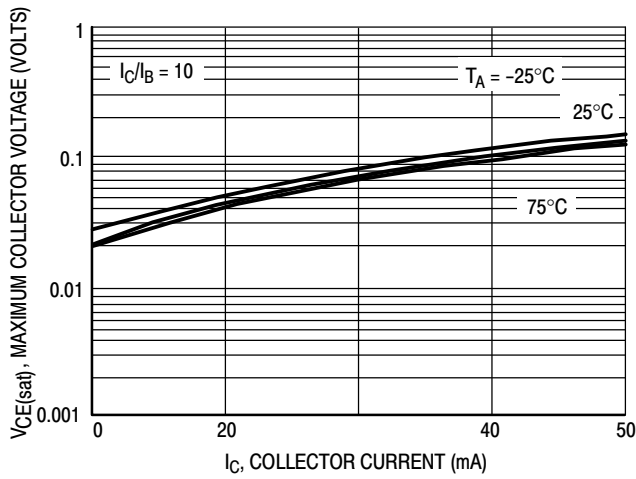


Figure 3.  $V_{CE(sat)}$  versus  $I_C$

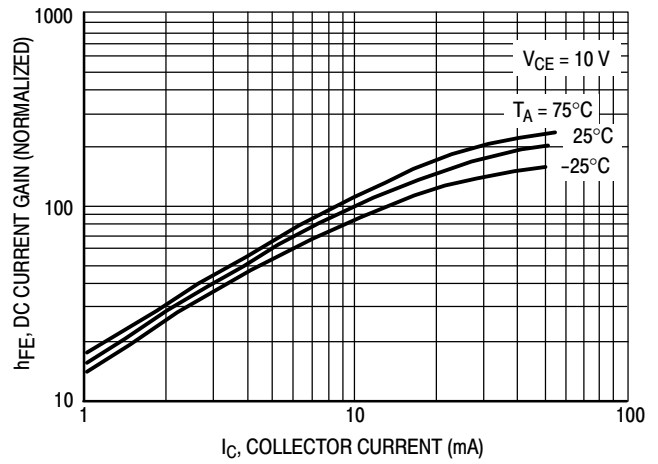


Figure 4. DC Current Gain

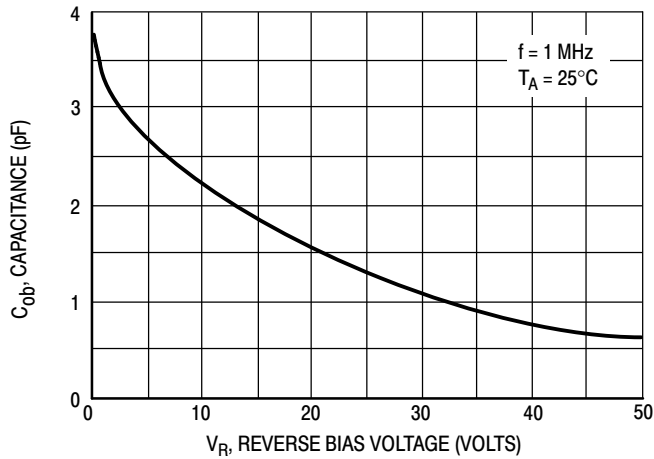


Figure 5. Output Capacitance

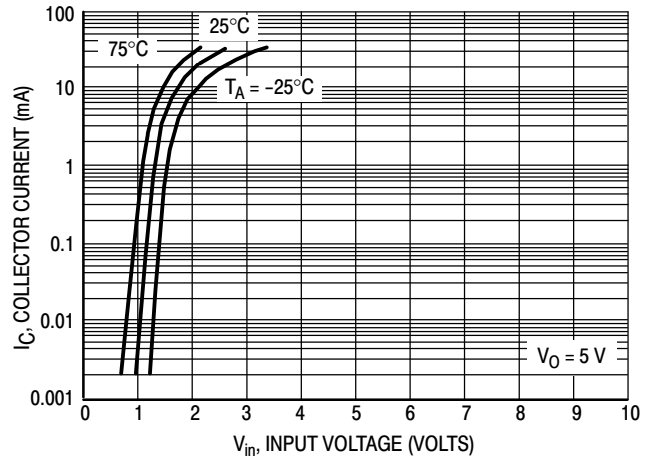


Figure 6. Output Current versus Input Voltage

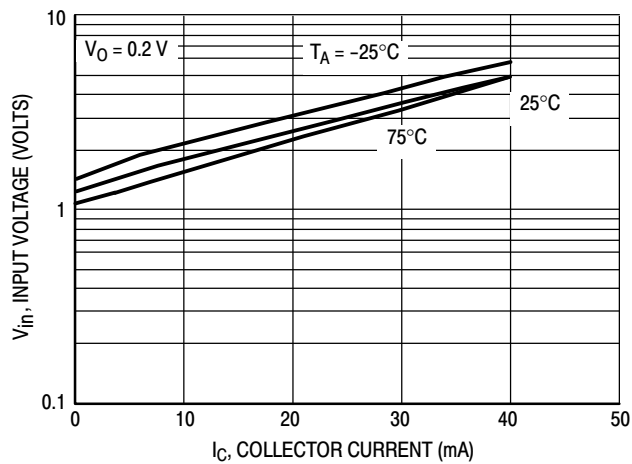


Figure 7. Input Voltage versus Output Current

TYPICAL ELECTRICAL CHARACTERISTICS - DTC123EET1

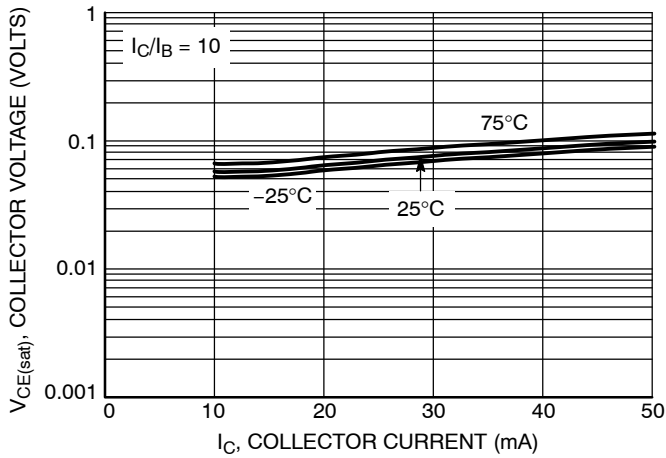


Figure 8.  $V_{CE(sat)}$  versus  $I_C$

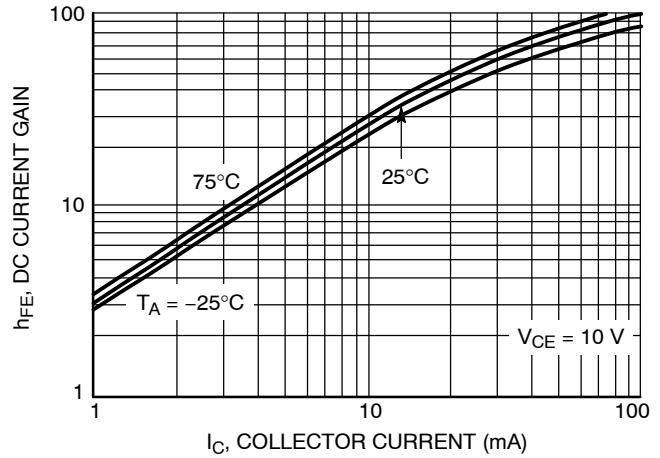


Figure 9. DC Current Gain

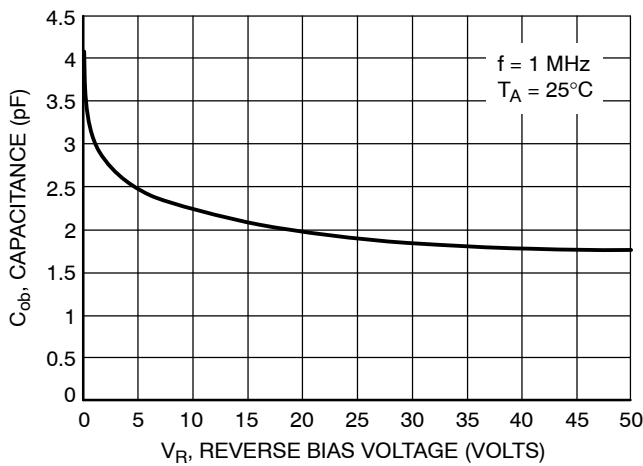


Figure 10. Output Capacitance

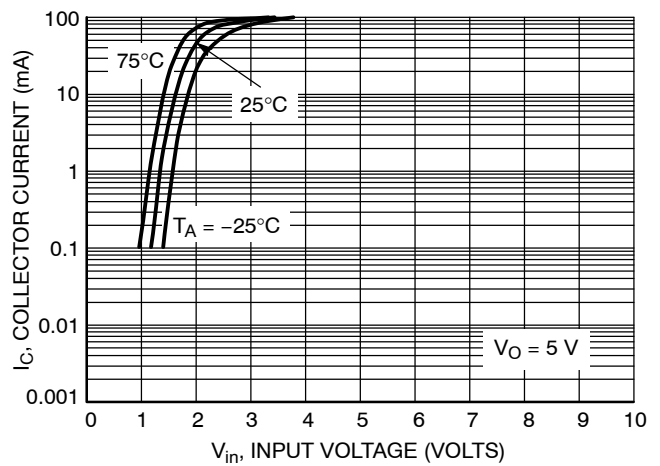


Figure 11. Output Current versus Input Voltage

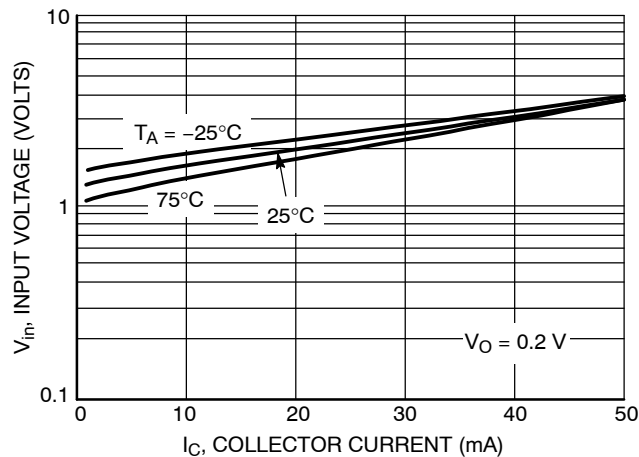


Figure 12. Input Voltage versus Output Current

# DTC114EET1 Series, SDTC114EET1 Series

## TYPICAL ELECTRICAL CHARACTERISTICS – DTC124EET1, SDTC124EET1

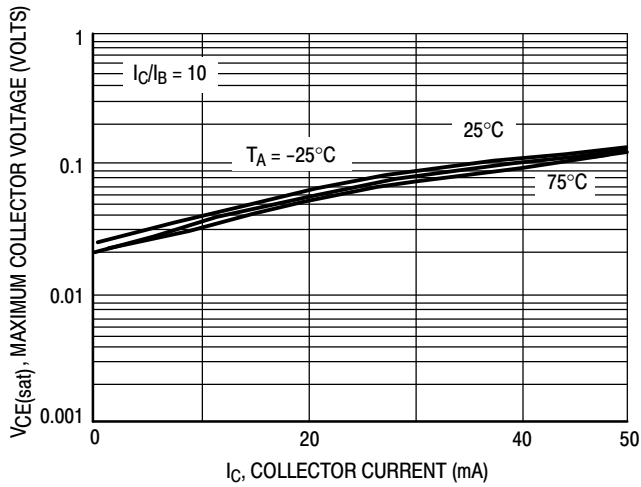


Figure 13.  $V_{CE(sat)}$  versus  $I_C$

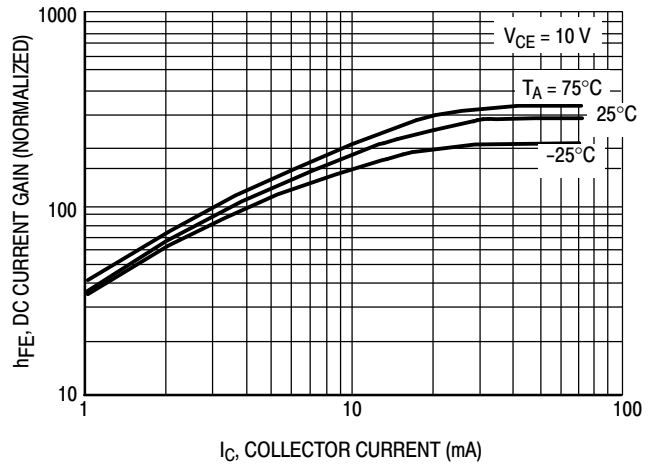


Figure 14. DC Current Gain

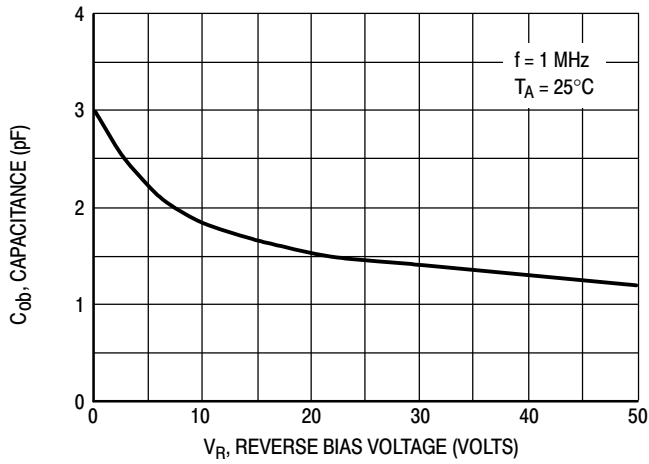


Figure 15. Output Capacitance

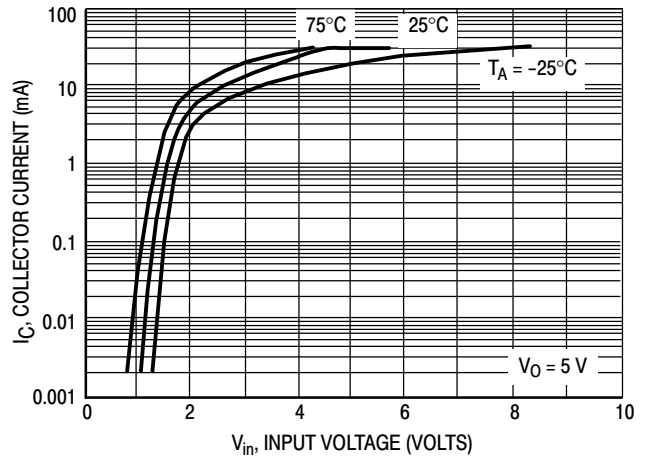


Figure 16. Output Current versus Input Voltage

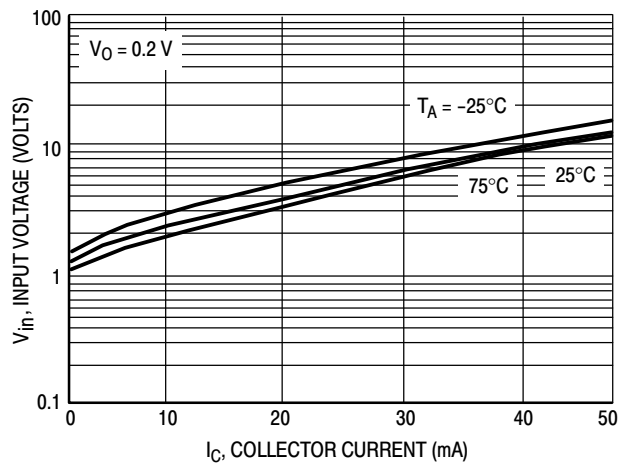


Figure 17. Input Voltage versus Output Current

# DTC114EET1 Series, SDTC114EET1 Series

## TYPICAL ELECTRICAL CHARACTERISTICS - DTC144EET1

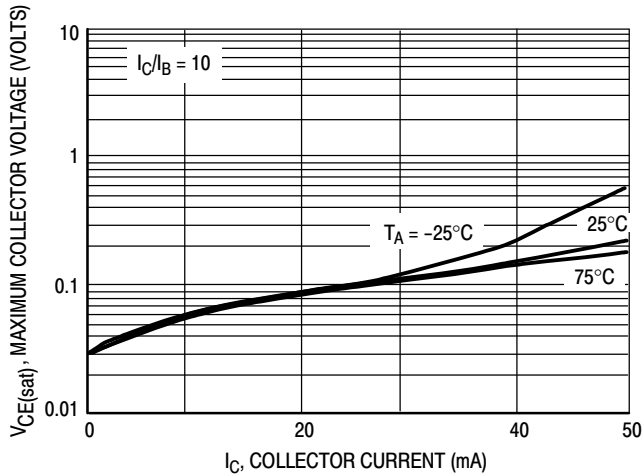


Figure 18.  $V_{CE(sat)}$  versus  $I_C$

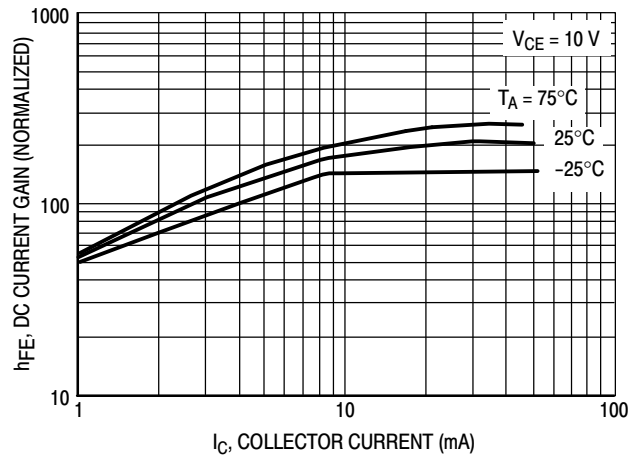


Figure 19. DC Current Gain

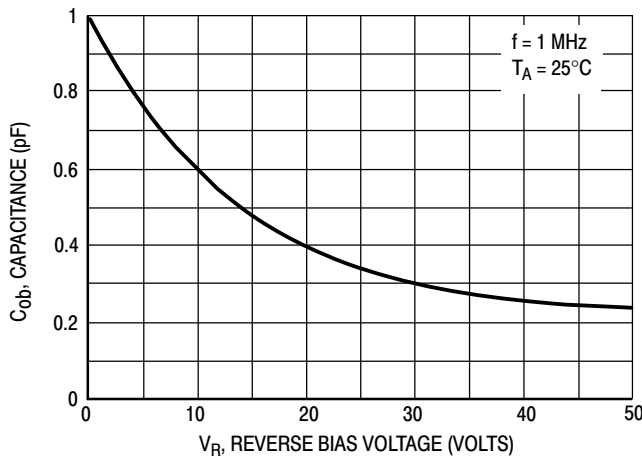


Figure 20. Output Capacitance

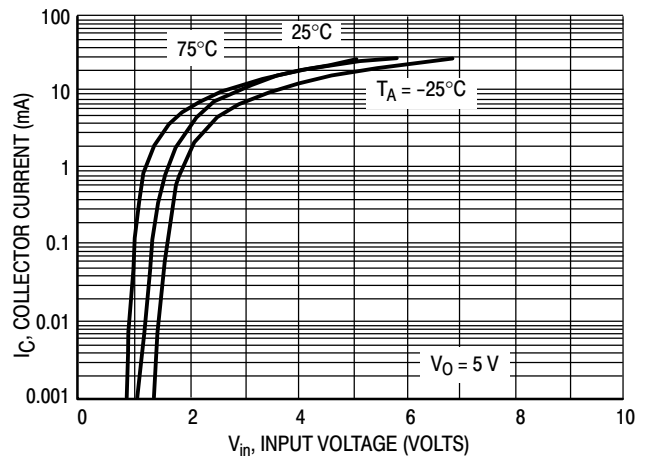


Figure 21. Output Current versus Input Voltage

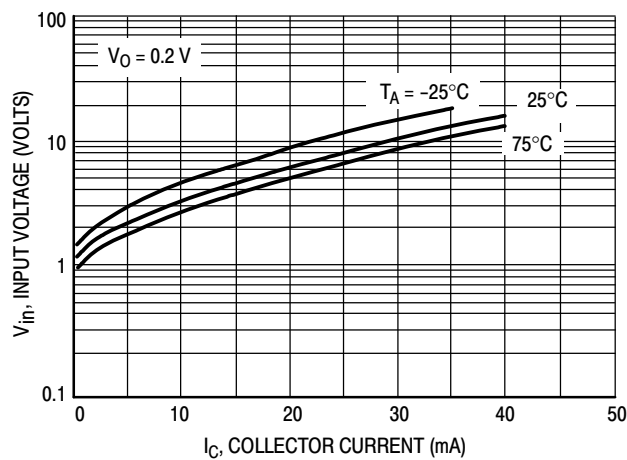


Figure 22. Input Voltage versus Output Current

# DTC114EET1 Series, SDTC114EET1 Series

## TYPICAL ELECTRICAL CHARACTERISTICS – DTC114YET1, SDTC114YET1

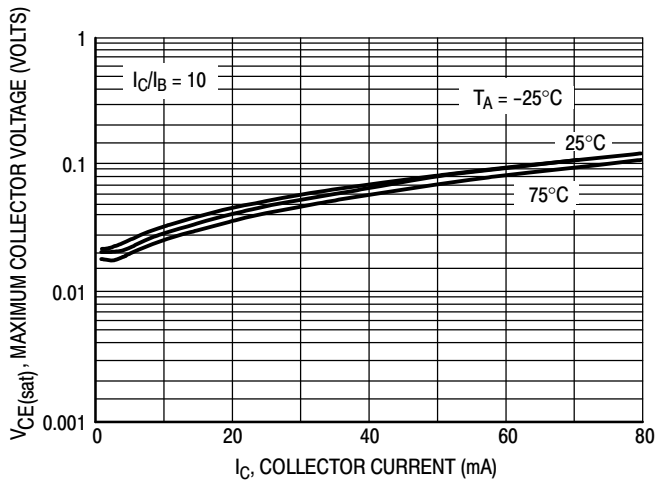


Figure 23.  $V_{CE(sat)}$  versus  $I_C$

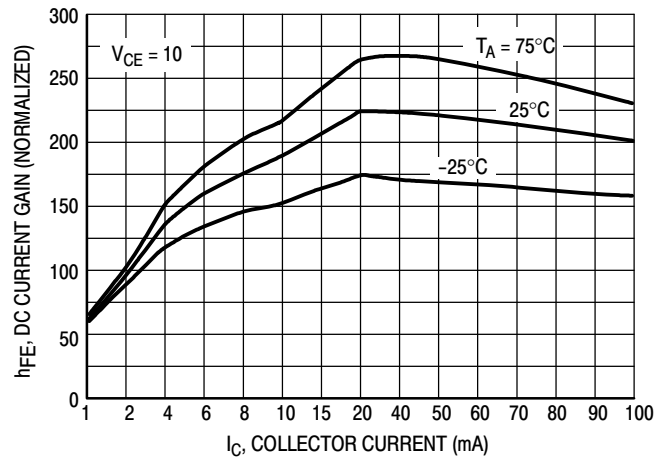


Figure 24. DC Current Gain

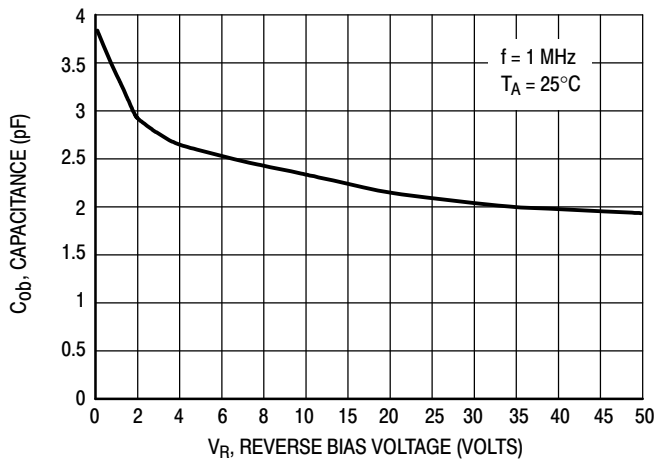


Figure 25. Output Capacitance

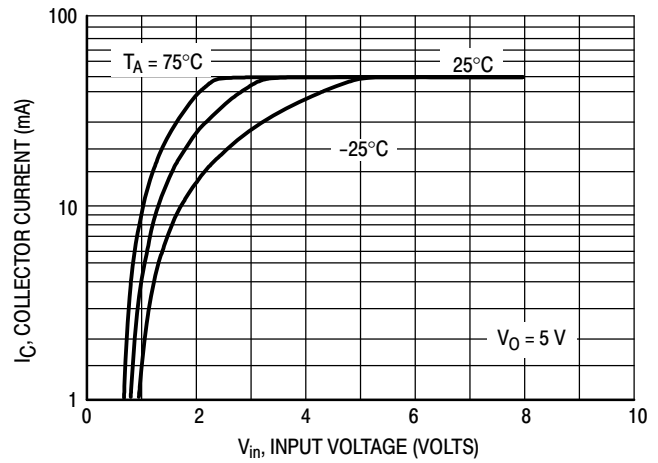


Figure 26. Output Current versus Input Voltage

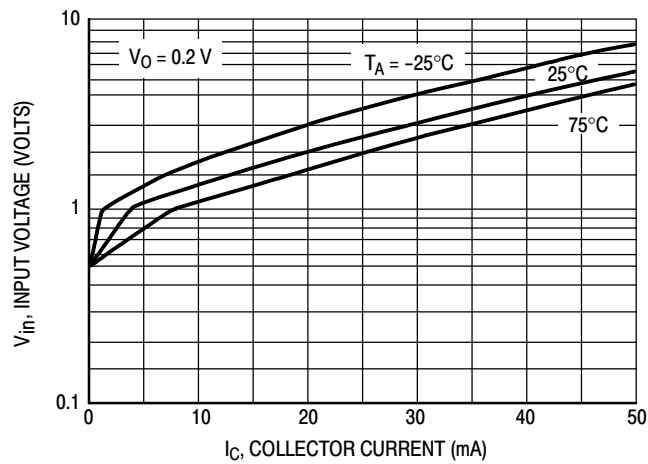


Figure 27. Input Voltage versus Output Current

TYPICAL ELECTRICAL CHARACTERISTICS – DTC123JET1G

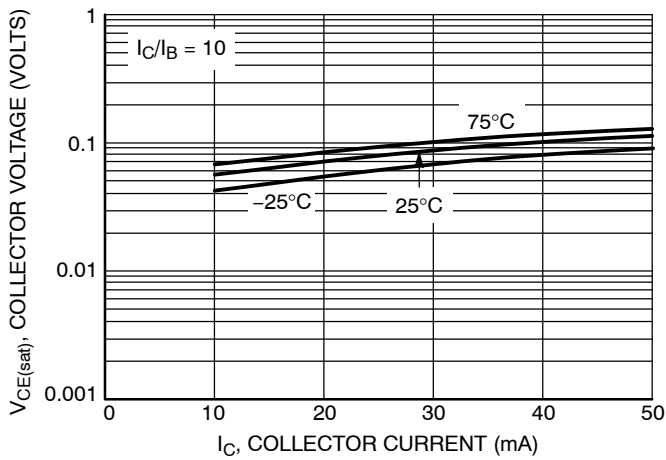


Figure 28.  $V_{CE(sat)}$  versus  $I_C$

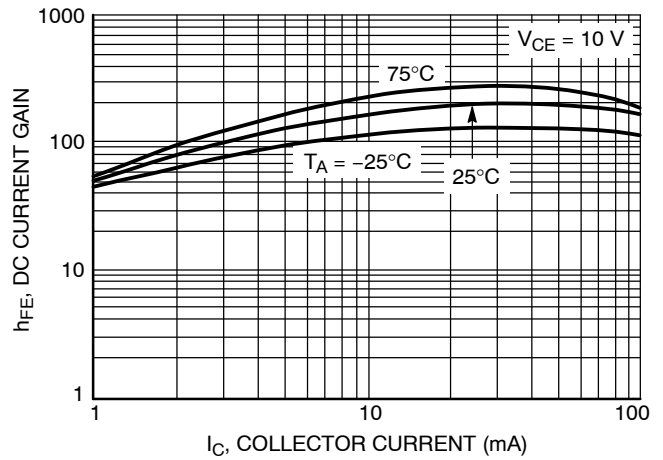


Figure 29. DC Current Gain

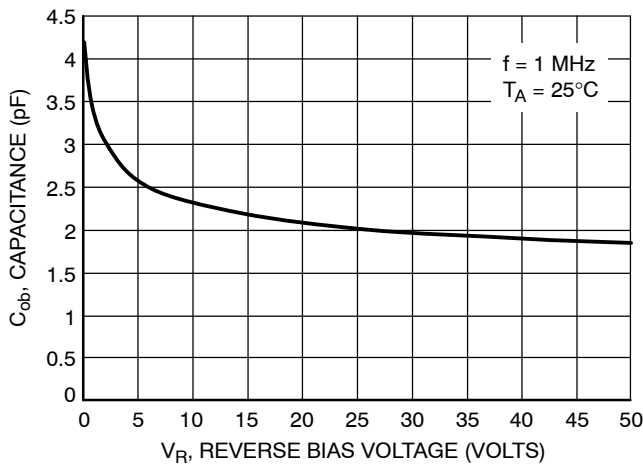


Figure 30. Output Capacitance

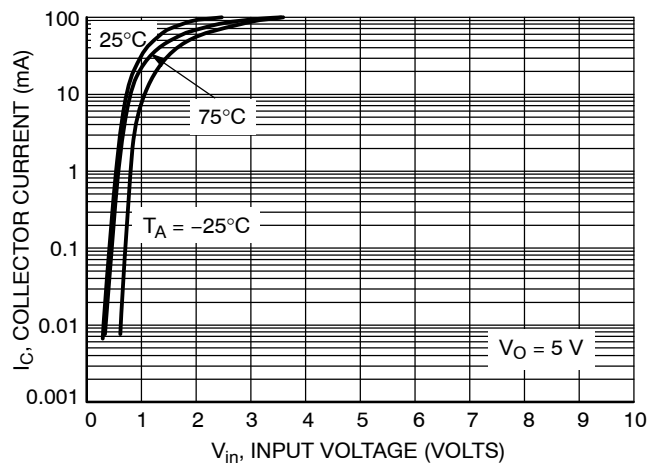


Figure 31. Output Current versus Input Voltage

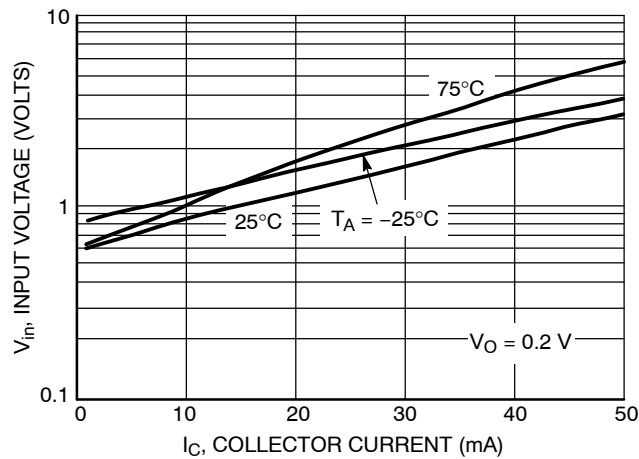


Figure 32. Input Voltage versus Output Current

TYPICAL ELECTRICAL CHARACTERISTICS - DTC143ZET1

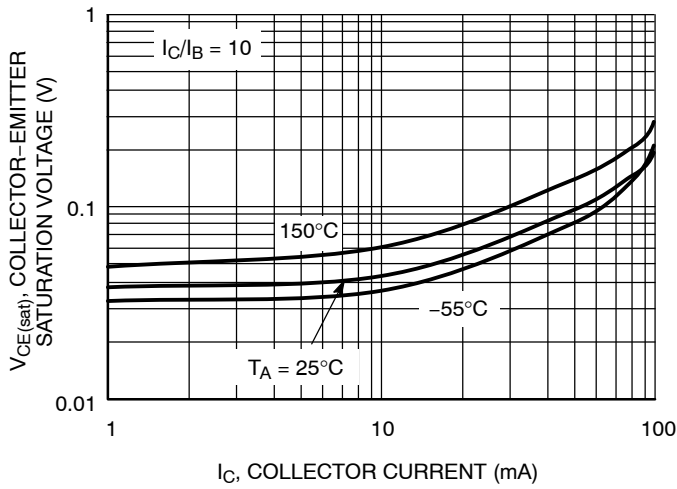


Figure 33.  $V_{CE(sat)}$  versus  $I_C$

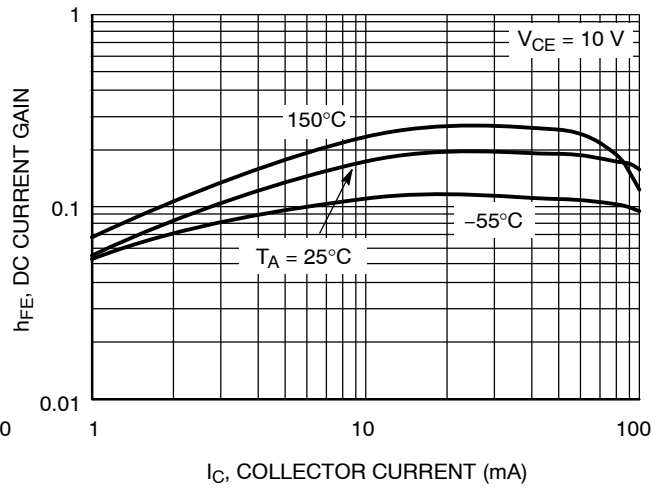


Figure 34. DC Current Gain

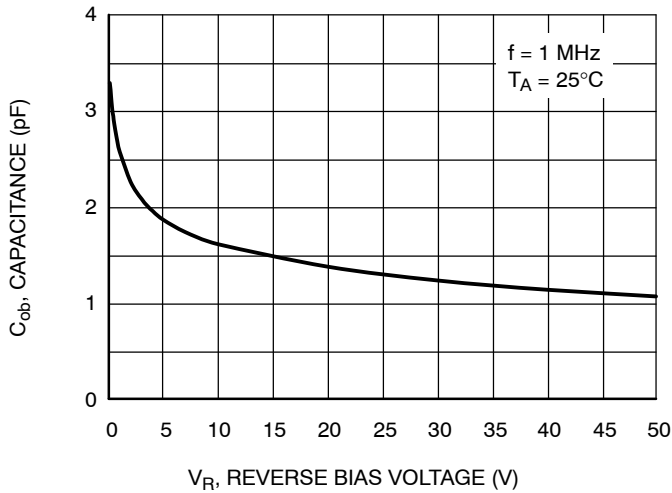


Figure 35. Output Capacitance

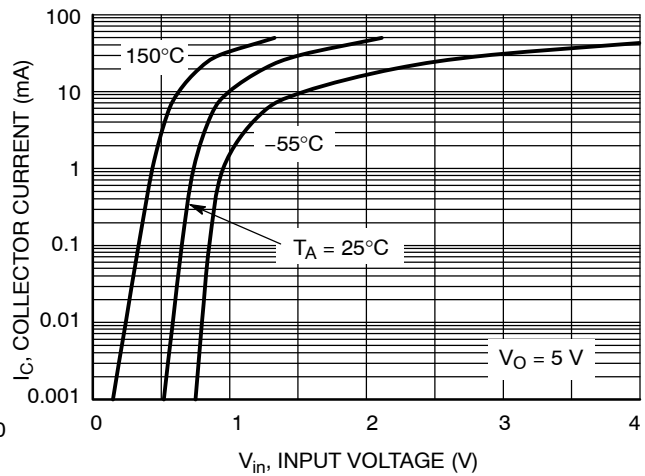


Figure 36. Output Current versus Input Voltage

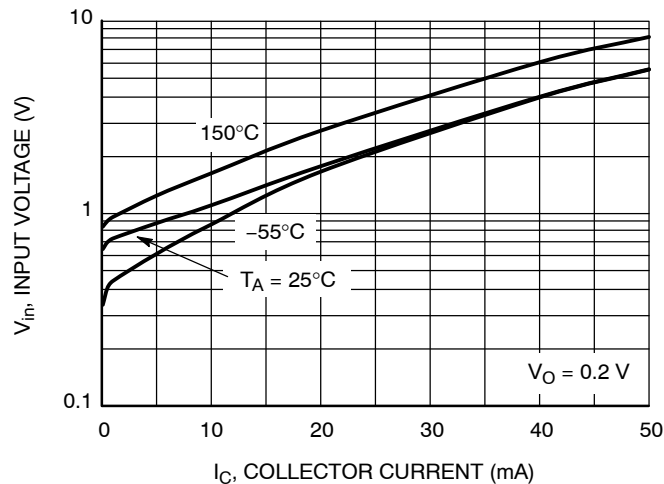


Figure 37. Input Voltage versus Output Current

## DTC114EET1 Series, SDTC114EET1 Series

### TYPICAL APPLICATIONS FOR NPN BRTs

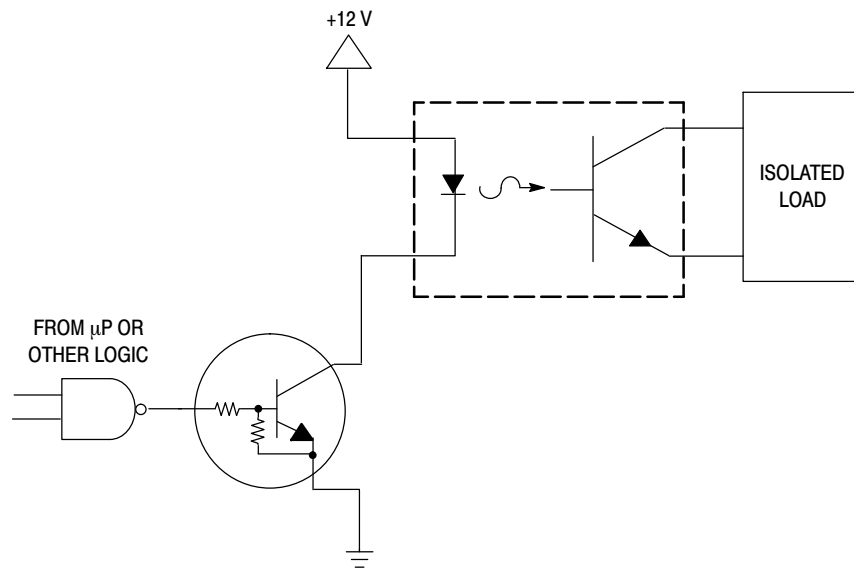


Figure 38. Level Shifter: Connects 12 or 24 Volt Circuits to Logic

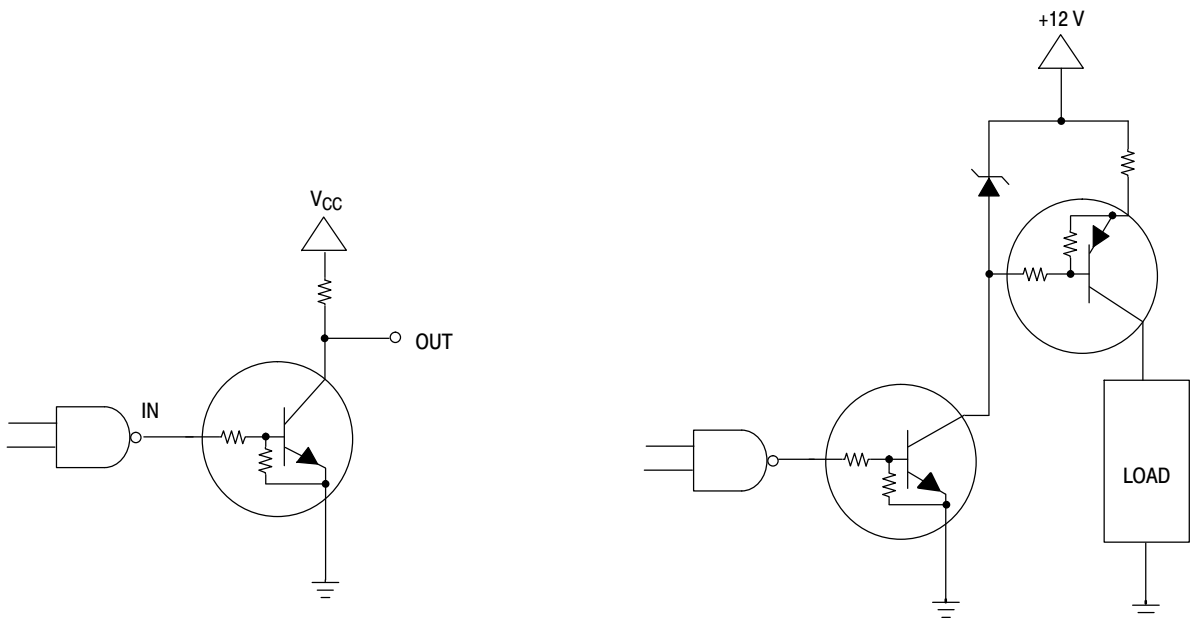


Figure 39. Open Collector Inverter:  
Inverts the Input Signal

Figure 40. Inexpensive, Unregulated Current Source

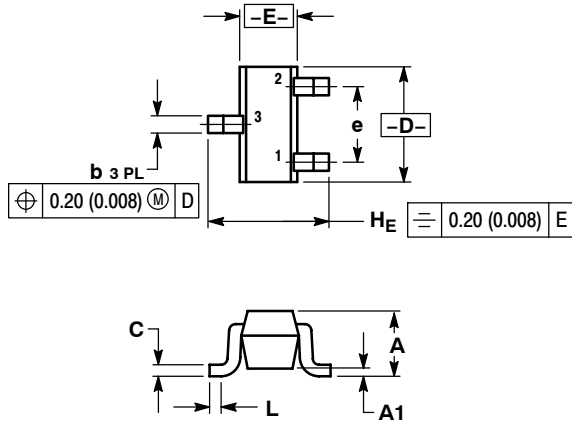
# DTC114EET1 Series, SDTC114EET1 Series

## PACKAGE DIMENSIONS

SC-75/SOT-416

CASE 463

ISSUE F



### NOTES:

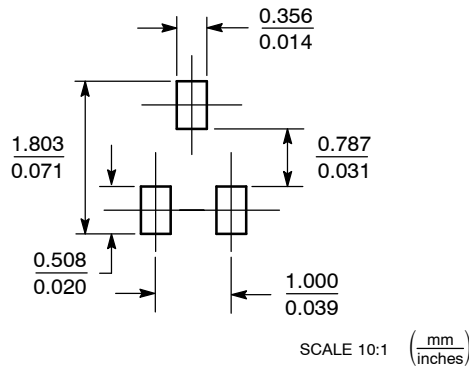
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.

| DIM            | MILLIMETERS |      |      | INCHES   |       |       |
|----------------|-------------|------|------|----------|-------|-------|
|                | MIN         | NOM  | MAX  | MIN      | NOM   | MAX   |
| A              | 0.70        | 0.80 | 0.90 | 0.027    | 0.031 | 0.035 |
| A1             | 0.00        | 0.05 | 0.10 | 0.000    | 0.002 | 0.004 |
| b              | 0.15        | 0.20 | 0.30 | 0.006    | 0.008 | 0.012 |
| C              | 0.10        | 0.15 | 0.25 | 0.004    | 0.006 | 0.010 |
| D              | 1.55        | 1.60 | 1.65 | 0.059    | 0.063 | 0.067 |
| E              | 0.70        | 0.80 | 0.90 | 0.027    | 0.031 | 0.035 |
| e              | 1.00 BSC    |      |      | 0.04 BSC |       |       |
| L              | 0.10        | 0.15 | 0.20 | 0.004    | 0.006 | 0.008 |
| H <sub>E</sub> | 1.50        | 1.60 | 1.70 | 0.061    | 0.063 | 0.065 |

### STYLE 1:

- PIN 1. BASE
- EMITTER
- COLLECTOR

## SOLDERING FOOTPRINT\*



SCALE 10:1 (mm/inches)

\*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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DTC114EET1/D

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- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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