## AD-DTC143T Series Digital Transistor (Built-In Resistors)

## AD-DTC143TM/DTC143TE/DTC143TUA/DTC143TKA/DTC143TCA/DTC143TSA Digital transistor (NPN)

## FEATURES

- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors (see equivalent circuit)
- The bias resistors consist of thin-film resistors with complete isolation to allow negative biasing of the input. They also have the advantage of almost completely eliminating parasitic effects.
- Only the on/off conditions need to be set for operation, making device design easier
- AEC-Q101 qualified


## PIN CONNECTIONS

(SOT-723

## EQUIVALENT CIRCUIT



## ORDERING INFORMATION

| Part number | Marking | Package | Packing method | Pack quantity |
| :---: | :---: | :---: | :---: | :---: |
| DTC143TM | 03 | SOT-723 | Reel | 8000pcs/reel |
| DTC143ZE | 03 | SOT-523 | Reel | 3000pcs/reel |
| DTC143ZUA | $\overline{0} 3$ | SOT-323 | Reel | 3000pcs/reel |
| DTC143ZKA | $\overline{0} 3$ | SOT-23-3L | Reel | 3000pcs/reel |
| DTC143ZCA | $\overline{0} 3$ | SOT-23 | Reel | 3000pcs/reel |
| DTC143ZSA | $\begin{aligned} & \overline{\mathrm{C}} 143 \\ & \mathrm{~T} \text { XXX } \end{aligned}$ | TO-92S | Bulk | 1000pcs/bag |
| DTC143ZSA-TA | C143 <br> T XXX | TO-92S | Tape | 3000pcs/box |

1) $X X X=$ Date code

MAXIMUM RATINGS ( $\mathrm{T}_{\mathrm{j}}=\mathbf{2 5}{ }^{\circ} \mathrm{C}$ unless otherwise specified)

| Parameter | Symbol | Value |  |  |  |  |  | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | M | E | UA | CA | KA | SA |  |
| Collector-base voltage | $\mathrm{V}_{\text {cbo }}$ | 50 |  |  |  |  |  | V |
| Collector-emitter voltage | $V_{\text {ceo }}$ | 50 |  |  |  |  |  | V |
| Emitter-base voltage | $V_{\text {Ebo }}$ | 5 |  |  |  |  |  | V |
| Collector current | Ic | 100 |  |  |  |  |  | mA |
| Power dissipation | PD | 100 | 150 | 200 | 200 | 200 | 300 | mW |
| Operating junction and storage temperature range | $\mathrm{T}_{\mathrm{j},} \mathrm{T}_{\text {stg }}$ | -55 ~ 150 |  |  |  |  |  | ${ }^{\circ} \mathrm{C}$ |

ELECTRICAL CHARACTERISTICS ( $\mathrm{T}_{\mathrm{j}}=\mathbf{2 5 ^ { \circ }} \mathbf{C}$ unless otherwise specified)

| Parameter | Symbol | Test condition | Min | Typ | Max | Unit |
| :--- | :---: | :--- | :---: | :---: | :---: | :---: |
| Collector-base breakdown voltage | $\mathrm{V}_{(\mathrm{BR}) \mathrm{CBO}}$ | $\mathrm{I}_{\mathrm{C}}=50 \mu \mathrm{~A}, \mathrm{I}_{\mathrm{E}}=0 \mathrm{~A}$ | 50 | - | - |  |
| Collector-emitter breakdown voltage | $\mathrm{V}_{(\mathrm{BR}) \mathrm{CEO}}$ | $\mathrm{I}_{\mathrm{C}}=1 \mathrm{~mA}, \mathrm{I}_{\mathrm{B}}=0 \mathrm{~A}$ | 50 | - | - | V |
| Emitter-base breakdown voltage | $\mathrm{V}_{(\mathrm{BR}) \mathrm{EBO}}$ | $\mathrm{I}_{\mathrm{E}}=50 \mu \mathrm{~A}, \mathrm{I}_{\mathrm{C}}=0 \mathrm{~A}$ | 5 | - | - |  |
| Collector cut-off current | $\mathrm{I}_{\mathrm{CBO}}$ | $\mathrm{V}_{\mathrm{CB}}=50 \mathrm{~V}, \mathrm{I}_{\mathrm{E}}=0 \mathrm{~A}$ | - | - | 0.5 | $\mu \mathrm{~A}$ |
| Emitter cut-off current | $\mathrm{I}_{\mathrm{EBO}}$ | $\mathrm{V}_{\mathrm{EB}}=4 \mathrm{~V}, \mathrm{I}_{\mathrm{C}}=0 \mathrm{~A}$ | - | - | 0.5 | $\mu \mathrm{~A}$ |
| Collector-emitter saturation voltage | $\mathrm{V}_{\mathrm{CE}(\text { sat })}$ | $\mathrm{I}_{\mathrm{C}}=5 \mathrm{~mA}, \mathrm{I}_{\mathrm{B}}=0.25 \mathrm{~mA}$ | - | - | 0.3 | V |
| DC current gain | $\mathrm{h}_{\mathrm{FE}}$ | $\mathrm{V}_{\mathrm{CE}}=5 \mathrm{~V}, \mathrm{I}_{\mathrm{C}}=1 \mathrm{~mA}$ | 100 | - | 600 | - |
| Input resistor | $\mathrm{R}_{1}$ |  | 3.29 | 4.7 | 6.11 | $\mathrm{k} \Omega$ |
| Transition frequency | $\mathrm{f}_{\mathrm{T}}$ | $\mathrm{V}_{\mathrm{CE}}=10 \mathrm{~V}, \mathrm{I}_{\mathrm{E}}=5 \mathrm{~mA}, \mathrm{f}=100 \mathrm{MHz}$ | - | 250 | - | MHz |

## TYPICAL CHARACTERISTICS



## SOT-723 PACKAGE OUTLINE DIMENSIONS



| Symbol | Dimensions In Millimeters |  | Dimensions In Inches |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Min. | Max. | Min. | Max. |
| A | 0.430 | 0.500 | 0.017 | 0.020 |
| A1 | 0.000 | 0.050 | 0.000 | 0.002 |
| b | 0.170 | 0.270 | 0.007 | 0.011 |
| b1 | 0.270 | 0.370 | 0.011 | 0.015 |
| c | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 1.150 | 1.250 | 0.045 | 0.049 |
| E | 1.150 | 1.250 | 0.045 | 0.049 |
| E1 | 0.750 | 0.850 | 0.030 | 0.033 |
| e | 0.800 TYP. |  | 0.031 TYP. |  |
| $\theta$ | $7^{\circ}$ REF. |  | $7^{\circ}$ REF. |  |

## SOT-723 SUGGESTED PAD LAYOUT



Note:

1. Controlling dimension in millimeters.
2. General tolerance: $\pm 0.05 \mathrm{~mm}$.
3. The pad layout is for reference purpose only.

## SOT-723 TAPE AND REEL

SOT-723 Embossed Carrier Tape


## Packaging Description:

SOT-723 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 8,000 units per $7^{\prime \prime}$ or 17.8 cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

| Dimensions are in millimeter |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pkg type | A | B | C | d | E | F | P0 | P | P1 | W |
| SOT-723 | 1.33 | 1.45 | 0.61 | $\varnothing 1.50$ | 1.75 | 3.50 | 4.00 | 2.00 | 2.00 | 8.00 |

## SOT-723 Tape Leader and Trailer



## SOT-723 Reel



| Dimensions are in millimeter |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reel Option | D | D1 | D2 | G | H | I | W1 | W2 |
| 7"Dla | $\varnothing 178.00$ | 54.40 | 13.00 | R78.00 | R25.60 | R6.50 | 9.50 | 12.30 |


| REEL | Reel Size | Box | Box Size $(\mathrm{mm})$ | Carton | Carton Size(mm) | G.W.(kg) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8000 pcs | 7 inch | 120,000 pcs | $203 \times 203 \times 195$ | $480,000 \mathrm{pcs}$ | $438 \times 438 \times 220$ |  |

## SOT-523 PACKAGE OUTLINE DIMENSIONS



| Symbol | Dimensions In Millimeters |  | Dimensions In Inches |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Min. | Max. | Min. | Max. |  |
| A | 0.700 | 0.900 | 0.028 | 0.035 |  |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |  |
| A2 | 0.700 | 0.800 | 0.028 | 0.031 |  |
| b1 | 0.150 | 0.250 | 0.006 | 0.010 |  |
| b2 | 0.250 | 0.350 | 0.010 | 0.014 |  |
| c | 0.100 | 0.200 | 0.004 | 0.008 |  |
| D | 1.500 | 1.700 | 0.059 | 0.067 |  |
| E | 0.700 | 0.900 | 0.028 | 0.035 |  |
| E1 | 1.450 | 1.750 | 0.057 | 0.069 |  |
| e | 0.500 TYP. |  | 0.020 TYP. |  |  |
| e1 | 0.900 | 1.100 | 0.035 | 0.043 |  |
| L | 0.400 |  | REF. | 0.016 REF. |  |
| L1 | 0.260 | 0.460 | 0.010 | 0.018 |  |
| $\theta$ | $0^{\circ}$ | $8^{\circ}$ | 0 | $0^{\circ}$ |  |

## SOT-523 SUGGESTED PAD LAYOUT



## Note:

1. Controlling dimension in millimeters.
2. General tolerance: $\pm 0.05 \mathrm{~mm}$.
3. The pad layout is for reference purpose only.

## SOT-523 TAPE AND REEL

SOT-523 Embossed Carrier Tape


Packaging Description:
SOT-523 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per $7^{\prime \prime}$ or 17.8 cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

| Dimensions are in millimeter |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pkg type | A | B | C | d | E | F | P 0 | P | P 1 | W |
| SOT-523 | 1.85 | 1.85 | 0.875 | $\varnothing 1.50$ | 1.75 | 3.50 | 4.00 | 4.00 | 2.00 | 8.00 |

## SOT-523 Tape Leader and Trailer



## SOT-523 Reel



| REEL | Reel Size | Box | Box Size $(\mathrm{mm})$ | Carton | Carton Size(mm) | G.W.(kg) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3000 pcs | 7 inch | 45,000 pcs | $203 \times 203 \times 195$ | $180,000 \mathrm{pcs}$ | $438 \times 438 \times 220$ |  |

## SOT-323 PACKAGE OUTLINE DIMENSIONS



| Symbol | Dimensions In Millimeters |  | Dimensions In Inches |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Min | Max | Min | Max |
| A | 0.900 | 1.100 | 0.035 | 0.043 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.000 | 0.035 | 0.039 |
| b | 0.200 | 0.400 | 0.008 | 0.016 |
| c | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 2.000 | 2.200 | 0.079 | 0.087 |
| E | 1.150 | 1.350 | 0.045 | 0.053 |
| E1 | 2.150 | 2.450 | 0.085 | 0.096 |
| e | 0.650 TYP |  | 0.026 TYP |  |
| e1 | 1.200 | 1.400 | 0.047 | 0.055 |
| L | 0.525 REF |  | 0.021 REF |  |
| L1 | 0.260 | 0.460 | 0.010 | 0.018 |
| $\theta$ | $0^{\circ}$ | $8^{\circ}$ | 0 | $0^{\circ}$ |

## SOT-323 SUGGESTED PAD LAYOUT



Note:

1. Controlling dimension in millimeters.
2. General tolerance: $\pm 0.05 \mathrm{~mm}$.
3. The pad layout is for reference purpose only.

## SOT-323 TAPE AND REEL

## SOT-323 Embossed Carrier Tape



A-A

## Packaging Description:

SOT-323 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7 " or 17.8 cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

| Dimensions are in millimeter |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pkg type | A | B | C | d | E | F | P0 | P | P1 | W |
| SOT-323 | 2.25 | 2.55 | 1.19 | Ø1.55 | 1.75 | 3.50 | 4.00 | 4.00 | 2.00 | 8.00 |

## SOT-323 Tape Leader and Trailer



## SOT-323 Reel



| REEL | Reel Size | Box | Box Size $(\mathrm{mm})$ | Carton | Carton Size $(\mathrm{mm})$ | G.W.(kg) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3000 pcs | 7 inch | $45,000 \mathrm{pcs}$ | $203 \times 203 \times 195$ | $180,000 \mathrm{pcs}$ | $438 \times 438 \times 220$ |  |

## SOT-23-3L PACKAGE OUTLINE DIMENSIONS



| Symbol | Dimensions In Millimeters |  | Dimensions In Inches |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Min. | Max. | Min. | Max. |
| A | 1.050 | 1.250 | 0.041 | 0.049 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 1.050 | 1.150 | 0.041 | 0.045 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| c | 0.100 | 0.200 | 0.004 | 0.008 |
| D | 2.820 | 3.020 | 0.111 | 0.119 |
| E1 | 1.500 | 1.700 | 0.059 | 0.067 |
| E | 2.650 | 2.950 | 0.104 | 0.116 |
| e | $0.950(\mathrm{BSC})$ | $0.037(\mathrm{BSC})$ |  |  |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.300 | 0.600 | 0.012 | 0.024 |
| $\theta$ | $0^{\circ}$ | $8^{\circ}$ | $0^{\circ}$ | $8^{\circ}$ |

## SOT-23-3L SUGGESTED PAD LAYOUT



Note:

1. Controlling dimension in millimeters.
2. General tolerance: $\pm 0.05 \mathrm{~mm}$.
3. The pad layout is for reference purpose only.

## SOT-23-3L TAPE AND REEL

## SOT-23-3L Embossed Carrier Tape



## Packaging Description:

SOT-23-3L parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 18.0 cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

| Dimensions are in millimeter |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pkg type | A | B | C | d | E | F | P0 | P | P1 | W |
| SOT-23-3L | 3.18 | 3.28 | 1.32 | $\varnothing 1.50$ | 1.75 | 3.50 | 4.00 | 4.00 | 2.00 | 8.00 |

## SOT-23-3L Tape Leader and Trailer



## SOT-23-3L Reel



| Dimensions are in millimeter |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reel Option | D | D1 | D2 | G | H | I | W1 | W2 |
| 7"Dia | $\varnothing 180.00$ | 60.00 | 13.00 | R78.00 | R25.60 | R6.50 | 9.50 | 13.10 |


| REEL | Reel Size | Box | Box Size $(\mathrm{mm})$ | Carton | Carton Size(mm) | G.W.(kg) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3000 pcs | 7 inch | 30,000 pcs | $203 \times 203 \times 195$ | 120,000 pcs | $438 \times 438 \times 220$ |  |

## SOT-23 PACKAGE OUTLINE DIMENSIONS



| Symbol | Dimensions In Millimeters |  | Dimensions In Inches |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Min | Max | Min | Max |
| A | 0.900 | 1.150 | 0.035 | 0.045 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| c | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 2.800 | 3.000 | 0.110 | 0.118 |
| E | 1.200 | 1.400 | 0.047 | 0.055 |
| E1 | 2.250 | 2.550 | 0.089 | 0.100 |
| e | 0.950 TYP |  | 0.037 TYP |  |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.550 REF |  | 0.022 REF |  |
| L1 | 0.300 | 0.500 | 0.012 | 0.020 |
| $\theta$ | $0^{\circ}$ | $8^{\circ}$ | $0^{\circ}$ | $8^{\circ}$ |

## SOT-23 SUGGESTED PAD LAYOUT



Note:

1. Controlling dimension in millimeters.
2. General tolerance: $\pm 0.05 \mathrm{~mm}$.
3. The pad layout is for reference purpose only.

## SOT-23 TAPE AND REEL

SOT-23 Embossed Carrier Tape


## Packaging Description:

SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8 cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

| DImenslons are In millimeter |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pkg type | A | B | C | d | E | F | P0 | P | P1 | W |
| SOT-23 | 3.15 | 2.77 | 1.22 | $\varnothing 1.50$ | 1.75 | 3.50 | 4.00 | 4.00 | 2.00 | 8.00 |

## SOT-23 Tape Leader and Trailer



## SOT-23 Reel



| Dimensions are in millimeter |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reel Optlon | D | D1 | D2 | G | H | I | W1 | W2 |
| 7"Dia | $\varnothing 178.00$ | 54.40 | 13.00 | R78.00 | R25.60 | R6.50 | Q.50 | 12.30 |


| REEL | Reel Size | Box | Box Size $(\mathrm{mm})$ | Carton | Carton Size(mm) | G.W.(kg) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3000 pcs | 7 inch | 45,000 pcs | $203 \times 203 \times 195$ | $180,000 \mathrm{pcs}$ | $438 \times 438 \times 220$ |  |

## TO-92S PACKAGE OUTLINE DIMENSIONS



| Symbol | Dimensions In Millimeters |  | Dimensions In Inches |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Min. | Max. | Min. | Max. |
| A | 1.420 | 1.620 | 0.056 | 0.064 |
| A1 | 0.660 | 0.860 | 0.026 | 0.034 |
| b | 0.330 | 0.480 | 0.013 | 0.019 |
| b1 | 0.400 | 0.510 | 0.016 | 0.020 |
| c | 0.330 | 0.510 | 0.013 | 0.020 |
| D | 3.900 | 4.100 | 0.154 | 0.161 |
| D1 | 2.280 | 2.680 | 0.090 | 0.106 |
| E | 3.050 | 3.250 | 0.120 | 0.128 |
| e | 1.270 TYP. |  | 0.050 TYP. |  |
| e1 | 2.440 | 2.640 | 0.096 | 0.104 |
| L | 15.100 | 15.500 | 0.594 | 0.610 |
| $\theta$ | $45^{\circ}$ TYP. |  | $45^{\circ}$ TYP. |  |

## TO-92S SUGGESTED PAD LAYOUT



Note:

1. Controlling dimension in millimeters.
2. General tolerance: $\pm 0.05 \mathrm{~mm}$.
3. The pad layout is for reference purpose only.

## TO-92S PACKAGE TAPING DIMENSION



| Dimiensions are in millimeter |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A1 | A | T | P | P 0 | P 2 | F 1 | F 2 | W |
| 4.0 | 3.15 | 1.52 | 12.7 | 12.7 | 6.35 | 2.5 | 2.5 | 18.0 |
| W0 | W 1 | W 2 | H | H 0 | D 0 | t 1 | t 2 | $\Delta \mathrm{P}$ |
| 6.0 | 9.0 | 1.0 | 19.0 | 16.0 | 4.0 | 0.4 | 0.2 | 0 |



| Package | Box | Box Size $(\mathrm{mm})$ | Carton | Carton Size $(\mathrm{mm})$ |
| :---: | :---: | :---: | :---: | :---: |
| TO-92S | 3000 pcs | $333 \times 162 \times 43$ | 30,000 pcs | $350 \times 340 \times 250$ |

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RN1303(TE85L,F) RN1306(TE85L,F) RN4605(TE85L,F) TTEPROTOTYPE79 EMH15T2R SMUN2214T3G SMUN5335DW1T1G NSBC143ZPDP6T5G NSVDTA143ZET1G NSVDTC143ZET1G NSVMUN5113DW1T3G SMUN2214T1G FMA7AT148 DTC114EUA-TP SMUN5237DW1T1G SMUN5213DW1T1G SMUN5114DW1T1G SMUN2111T1G DTC124ECA-TP DTC123TM3T5G DTA114ECA-TP DTA113EM3T5G DTC113EM3T5G NSVMUN5135DW1T1G NSVMUN2237T1G NSVDTC143ZM3T5G SMUN5335DW1T2G SMUN5216DW1T1G NSVMUN5316DW1T1G NSVMUN5215DW1T1G

