

JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-DTA114E Series Digital Transistor (Built-In Resistors)

AD-DTA114EM/DTA114EE/DTA114EUA/DTA114EKA /DTA114ECA/DTA114ESA Digital transistor (PNP)

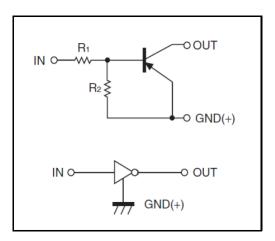
FEATURES

- 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 positive 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 AND MARKING

| AD-DTA114EM | SOT-723 | AD-DTA114EE | SOT-523 |
|----------------|---------------------------|--------------|---------------------------|
| | 1. IN 2. GND 3. OUT | | 1. IN 2. GND 3. OUT |
| AD-DTA114EUA | SOT-323 | AD-DTA114EKA | SOT-23-3L |
| 1 2 | 1. IN 2. GND 3. OUT | 1 2 | 1. IN 2. GND 3. OUT |
| AD-DTA114ECA 3 | SOT-23 | AD-DTA114ESA | TO-92S |
| | 1.IN 2.GND 3.OUT | 123 | 1. GND 2. OUT 3. IN |

EQUIVALENT CIRCUIT



ORDERING INFORMATION

| Part number | Marking | Package | Packing method | Pack quantity |
|-----------------|-----------------------------|-----------|----------------|---------------|
| AD-DTA114EM | 14 | SOT-723 | Reel | 8000pcs/reel |
| AD-DTA114EE | | SOT-523 | Reel | 3000pcs/reel |
| AD-DTA114EUA | 1 4 | SOT-323 | Reel | 3000pcs/reel |
| AD-DTA114EKA | | SOT-23-3L | Reel | 3000pcs/reel |
| AD-DTA114ECA | 14 | SOT-23 | Reel | 3000pcs/reel |
| AD-DTA114ESA | Ā114 E XXX ¹⁾ | TO-92S | Bulk | 1000pcs/bag |
| AD-DTA114ESA-TA | Ā114 E XXX ¹⁾ | TO-92S | Таре | 3000pcs/box |

¹⁾ XXX = Date code

MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

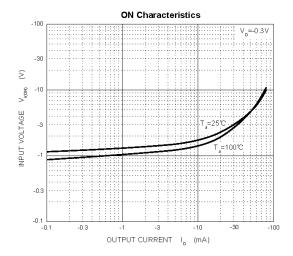
| Parameter | Symbol | Value | | | | | | Unit |
|--|-----------------------------------|-----------|-----|-----|-----|-----|-----|------|
| | | М | Е | UA | CA | KA | SA | |
| Supply voltage | Vcc | -50 | | | | | | V |
| Input voltage | V _{IN} | -40 ~ 10 | | | | | | V |
| Output current | lo 1) | -50 | | | | | | mA |
| Peak collector current | I _{CM} ¹⁾ | -100 | | | | | | mA |
| Maximum power dissipation | P _D 1) | 100 | 150 | 200 | 200 | 200 | 300 | mW |
| Operating junction and storage temperature range | T _j , T _{stg} | -55 ~ 150 | | | | | °C | |

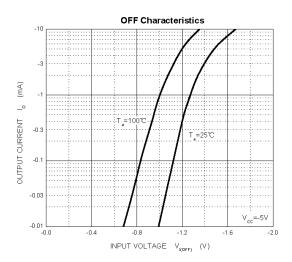
ELECTRICAL CHARACTERISTICS ($T_j = 25^{\circ}C$ unless otherwise specified)

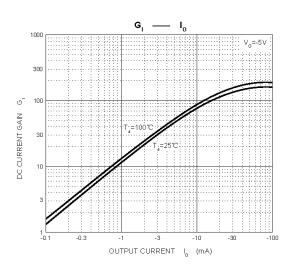
| Parameter | Symbol | Test condition | Min | Тур | Max | Unit |
|----------------------|--------------------------------|--|------|-----|-------|------|
| Input voltage | $V_{I(off)}$ | $V_{CC} = -5V$, $I_{O} = -100\mu A$ | -0.5 | - | - | V |
| Input voltage | V _{I(on)} | $V_0 = -0.3V$, $I_0 = -10$ mA | ı | - | -3 | V |
| Output voltage | V _{O(on)} | I _O /I _I = -10mA/-0.5mA | ı | - | -0.3 | V |
| Input current | l _l | V _I = -5V | ı | - | -0.88 | mA |
| Output current | I _{O(off)} | V _{CC} = -50V, V _I = 0V | - | - | -0.5 | μA |
| DC current gain | Gı | V _O = -5V, I _O = -5mA | 30 | - | - | - |
| Input resistance | R ₁ | | 7 | 10 | 13 | kΩ |
| Resistance ratio | R ₂ /R ₁ | | 0.8 | 1 | 1.2 | |
| Transition frequency | f⊤ | V _O = -10V, I _O = -5mA, f = 100MHz | - | 250 | - | MHz |

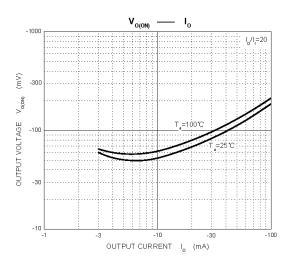
¹⁾ Maximum allowed temperature T_j = 25°C.

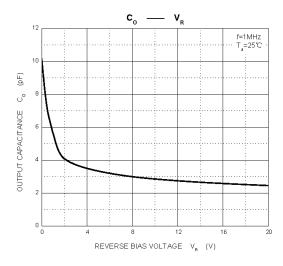
TYPICAL CHARACTERISTICS

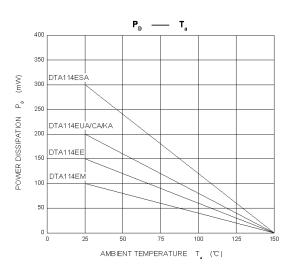




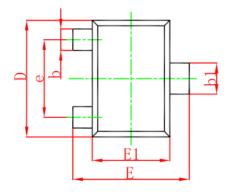


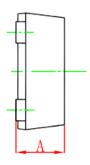


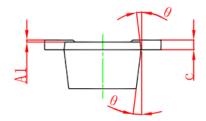




SOT-723 PACKAGE OUTLINE DIMENSIONS

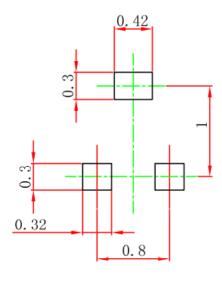






| Symbol | Dimensions | In Millimeters | Dimension | ns In Inches | |
|--------|------------|----------------|-----------|--------------|--|
| Symbol | Min. | Max. | Min. | Max. | |
| Α | 0.430 | 0.500 | 0.017 | 0.020 | |
| A1 | 0.000 | 0.050 | 0.000 | 0.002 | |
| b | 0.170 | 0.270 | 0.007 | 0.011 | |
| b1 | 0.270 | 0.370 | 0.011 | 0.015 | |
| С | 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 | |
| е | 0.80 | 0TYP. | 0.031TYP. | | |
| θ | 7° F | REF. | 7° I | REF. | |

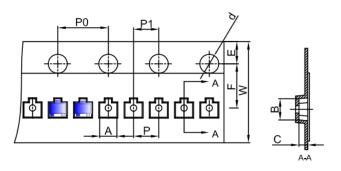
SOT-723 SUGGESTED PAD LAYOUT



- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

SOT-723 TAPE AND REEL

SOT-723 Embossed Carrier Tape

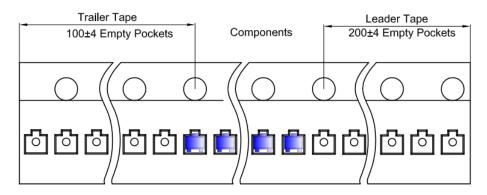


Packaging Description:

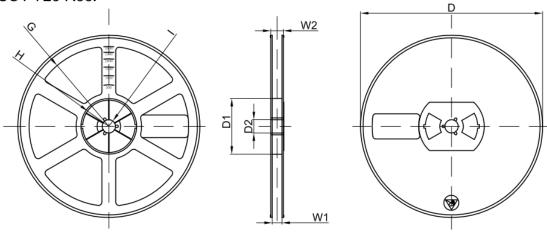
SOT-723 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts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

| | Dimensions are in millimeter | | | | | | | | | |
|----------|------------------------------|------|------|-------|------|------|------|------|------|------|
| Pkg type | Α | В | С | d | E | F | P0 | Р | P1 | W |
| SOT-723 | 1.33 | 1.45 | 0.61 | Ø1.50 | 1.75 | 3.50 | 4.00 | 2.00 | 2.00 | 8.00 |

SOT-723 Tape Leader and Trailer



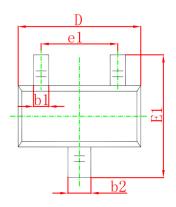
SOT-723 Reel

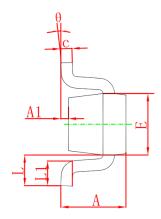


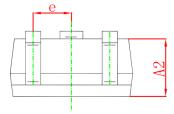
| | Dimensions are in millimeter | | | | | | | | | | |
|---------------------------------|------------------------------|-------|-------|--------|--------|-------|------|-------|--|--|--|
| Reel Option D D1 D2 G H I W1 W2 | | | | | | | | | | | |
| 7"Dla | Ø178.00 | 54.40 | 13.00 | R78.00 | R25.60 | R6.50 | 9.50 | 12.30 | | | |

| REEL | Reel Size | Box | Box Size(mm) | Carton | Carton Size(mm) | G.W.(kg) |
|----------|-----------|-------------|--------------|-------------|-----------------|----------|
| 8000 pcs | 7 inch | 120,000 pcs | 203×203×195 | 480,000 pcs | 438×438×220 | |

SOT-523 PACKAGE OUTLINE DIMENSIONS

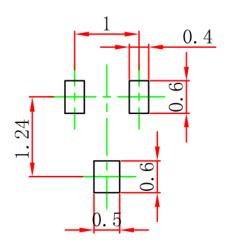






| Cumbal | Dimensions | In Millimeters | Dimensions In Inches | | | |
|--------|------------|----------------|----------------------|-------|--|--|
| Symbol | Min. | Max. | Min. | Max. | | |
| Α | 0.700 | 0.900 | 0.028 | 0.035 | | |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 | | |
| A2 | 0.700 | 0.800 | 0.028 | 0.031 | | |
| b1 | 0.150 | 0.250 | 0.006 | 0.010 | | |
| b2 | 0.250 | 0.350 | 0.010 | 0.014 | | |
| С | 0.100 | 0.200 | 0.004 | 800.0 | | |
| 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 | | |
| е | 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 | | |
| θ | 0° | 8° | 0° | 8° | | |

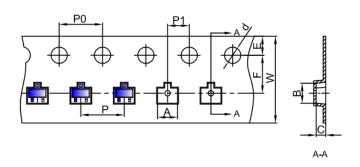
SOT-523 SUGGESTED PAD LAYOUT



- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

SOT-523 TAPE AND REEL

SOT-523 Embossed Carrier Tape

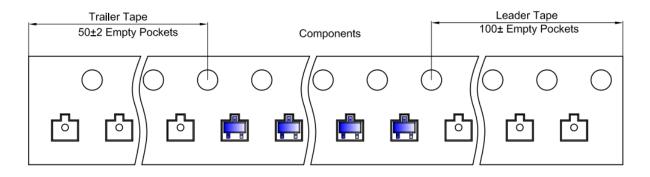


Packaging Description:

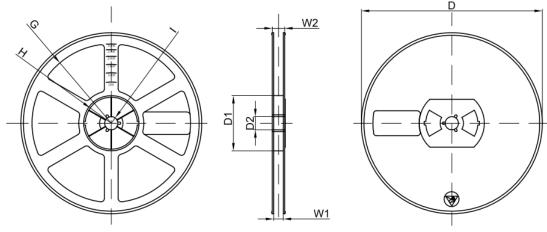
SOT-523 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts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

| | Dimensions are in millimeter | | | | | | | | | |
|----------|------------------------------|------|-------|-------|------|------|------|------|------|------|
| Pkg type | Α | В | С | d | E | F | P0 | Р | P1 | W |
| SOT-523 | 1.85 | 1.85 | 0.875 | Ø1.50 | 1.75 | 3.50 | 4.00 | 4.00 | 2.00 | 8.00 |

SOT-523 Tape Leader and Trailer



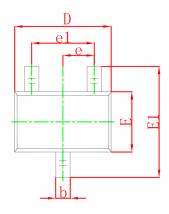


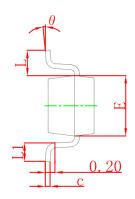


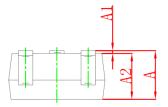
| Dimensions are in millimeter | | | | | | | | | |
|------------------------------|---------|-------|-------|--------|--------|-------|------|-------|--|
| Reel Option | D | D1 | D2 | G | Н | I | W1 | W2 | |
| 7"D i a | Ø178.00 | 54.40 | 13.00 | R78.00 | R25.60 | R6.50 | 9.50 | 12.30 | |

| REEL | Reel Size | Вох | Box Size(mm) | Carton | Carton Size(mm) | G.W.(kg) |
|----------|-----------|------------|--------------|-------------|-----------------|----------|
| 3000 pcs | 7 inch | 45,000 pcs | 203×203×195 | 180,000 pcs | 438×438×220 | |

SOT-323 PACKAGE OUTLINE DIMENSIONS

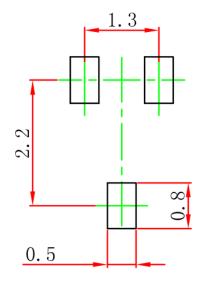






| Cumbal | Dimensions | In Millimeters | Dimension | s In Inches |
|--------|------------|----------------|-----------|-------------|
| Symbol | Min | Max | Min | Max |
| Α | 0.900 | 1.100 | 0.035 | 0.043 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.000 | 0.035 | 0.039 |
| b | 0.200 | 0.400 | 0.008 | 0.016 |
| С | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 2.000 | 2.200 | 0.079 | 0.087 |
| Е | 1.150 | 1.350 | 0.045 | 0.053 |
| E1 | 2.150 | 2.450 | 0.085 | 0.096 |
| е | 0.650 |) TYP | 0.02 | 6 TYP |
| e1 | 1.200 | 1.400 | 0.047 | 0.055 |
| L | 0.525 | REF | 0.02 | 1 REF |
| L1 | 0.260 | 0.460 | 0.010 | 0.018 |
| θ | 0° | 8° | 0° | 8° |

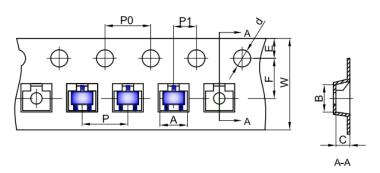
SOT-323 SUGGESTED PAD LAYOUT



- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

SOT-323 TAPE AND REEL

SOT-323 Embossed Carrier Tape

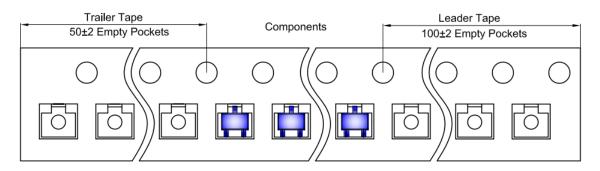


Packaging Description:

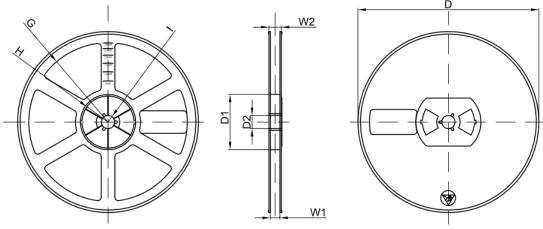
SOT-323 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts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

| | Dimensions are in millimeter | | | | | | | | | |
|----------|------------------------------|------|------|-------|------|------|------|------|------|------|
| Pkg type | Α | В | С | d | E | F | P0 | Р | 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



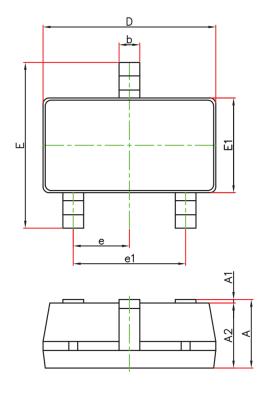


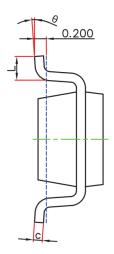


| | Dimensions are in millimeter | | | | | | | | | | |
|-------------|------------------------------|-------|-------|--------|--------|-------|------|-------|--|--|--|
| Reel Option | D | D1 | D2 | G | Н | I | W1 | W2 | | | |
| 7"Dia | Ø178.00 | 54.40 | 13.00 | R78.00 | R25.60 | R6.50 | 9.50 | 12.30 | | | |

| REEL | Reel Size | Вох | Box Size(mm) | Carton | Carton Size(mm) | G.W.(kg) |
|----------|-----------|------------|--------------|-------------|-----------------|----------|
| 3000 pcs | 7 inch | 45,000 pcs | 203×203×195 | 180,000 pcs | 438×438×220 | |

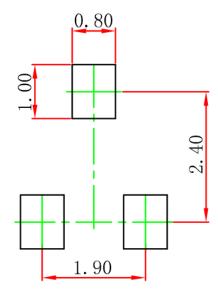
SOT-23-3L PACKAGE OUTLINE DIMENSIONS





| Symbol | Dimensions In | n Millimeters | Dimension | s In Inches |
|--------|---------------|---------------|-----------|-------------|
| Symbol | Min. | Max. | Min. | Max. |
| Α | 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 |
| С | 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 |
| е | 0.950(| BSC) | 0.037 | (BSC) |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.300 | 0.600 | 0.012 | 0.024 |
| θ | 0° | 8° | 0° | 8° |

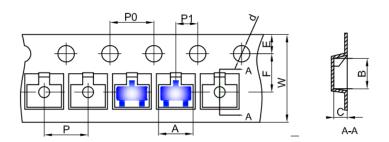
SOT-23-3L SUGGESTED PAD LAYOUT



- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

SOT-23-3L TAPE AND REEL

SOT-23-3L Embossed Carrier Tape

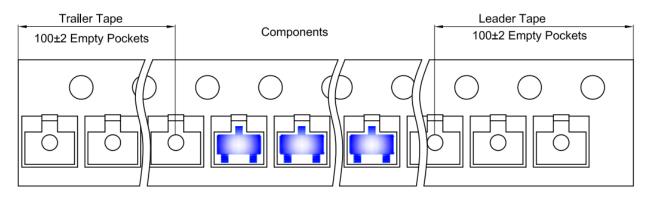


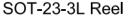
Packaging Description:

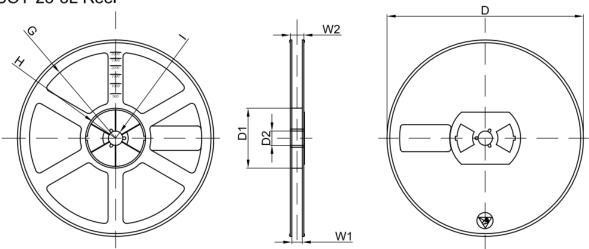
SOT-23-3L parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts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

| | Dimensions are in millimeter | | | | | | | | | |
|-----------|------------------------------|------|------|-------|------|------|------|------|------|------|
| Pkg type | Α | В | С | d | E | F | P0 | Р | P1 | W |
| SOT-23-3L | 3.18 | 3.28 | 1.32 | Ø1.50 | 1.75 | 3.50 | 4.00 | 4.00 | 2.00 | 8.00 |

SOT-23-3L Tape Leader and Trailer



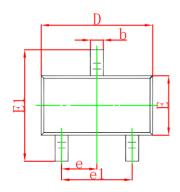


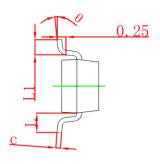


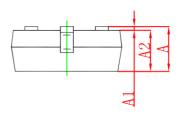
| | Dimensions are in millimeter | | | | | | | | | | |
|-------------|---|-------|-------|--------|--------|-------|------|-------|--|--|--|
| Reel Option | Reel Option D D1 D2 G H I W1 W2 | | | | | | | | | | |
| 7"Dia | Ø180.00 | 60.00 | 13.00 | R78.00 | R25.60 | R6.50 | 9.50 | 13.10 | | | |

| REEL | Reel Size | Box | Box Size(mm) | Carton | Carton Size(mm) | G.W.(kg) |
|----------|-----------|------------|--------------|-------------|-----------------|----------|
| 3000 pcs | 7 inch | 30,000 pcs | 203×203×195 | 120,000 pcs | 438×438×220 | |

SOT-23 PACKAGE OUTLINE DIMENSIONS

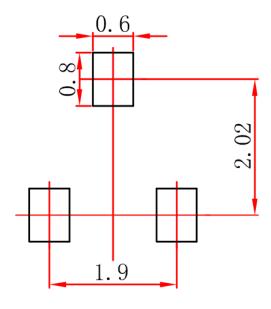






| Symbol | Dimensions | In Millimeters | Dimension | s In Inches |
|--------|------------|----------------|-----------|-------------|
| Symbol | Min | Max | Min | Max |
| Α | 0.900 | 1.150 | 0.035 | 0.045 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| С | 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 |
| е | 0.95 |) TYP | 0.03 | 7 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 |
| θ | 0° | 8° | 0° | 8° |

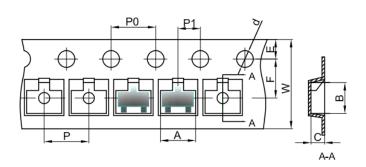
SOT-23 SUGGESTED PAD LAYOUT



- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

SOT-23 TAPE AND REEL

SOT-23 Embossed Carrier Tape

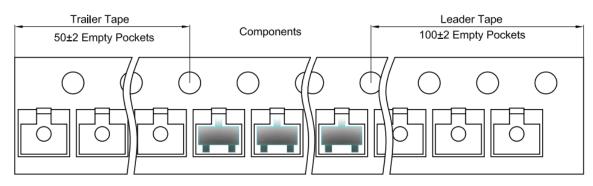


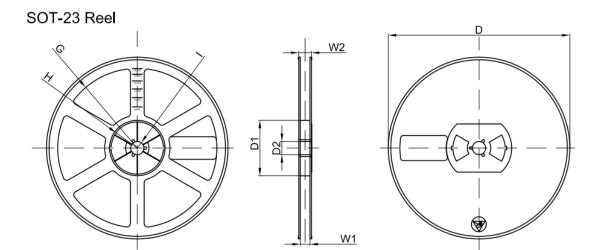
Packaging Description:

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 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

| | Dimensions are in millimeter | | | | | | | | | |
|----------|------------------------------|------|------|-------|------|------|------|------|------|------|
| Pkg type | Α | В | С | d | E | F | P0 | Р | P1 | W |
| SOT-23 | 3.15 | 2.77 | 1.22 | Ø1.50 | 1.75 | 3.50 | 4.00 | 4.00 | 2.00 | 8.00 |

SOT-23 Tape Leader and Trailer

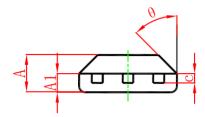


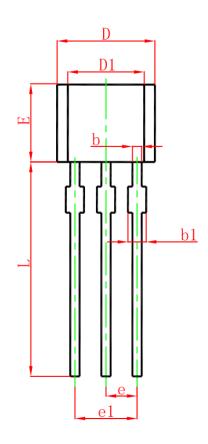


| | Dimensions are in millimeter | | | | | | | | | | |
|-------------|---|-------|-------|--------|--------|-------|------|-------|--|--|--|
| Reel Option | Reel Option D D1 D2 G H I W1 W2 | | | | | | | | | | |
| 7"Dia | Ø178.00 | 54.40 | 13.00 | R78.00 | R25.60 | R6.50 | 9.50 | 12.30 | | | |

| REEL | Reel Size | Вох | Box Size(mm) | Carton | Carton Size(mm) | G.W.(kg) |
|----------|-----------|------------|--------------|-------------|-----------------|----------|
| 3000 pcs | 7 inch | 45,000 pcs | 203×203×195 | 180,000 pcs | 438×438×220 | |

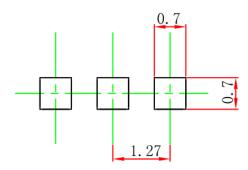
TO-92S PACKAGE OUTLINE DIMENSIONS





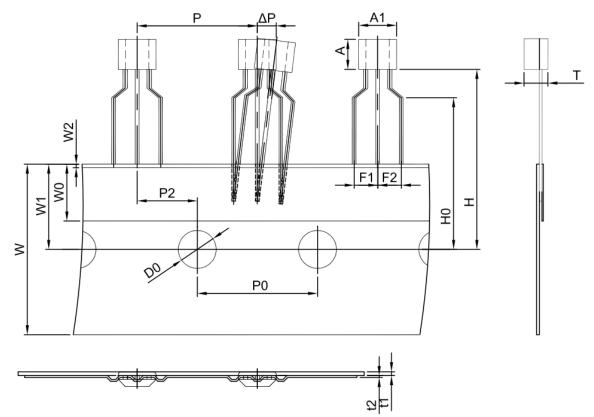
| Symbol | Dimensions | In Millimeters | Dimensions In Inches | | |
|--------|------------|----------------|----------------------|-------|--|
| | Min. | Max. | Min. | Max. | |
| Α | 1.420 | 1.620 | 0.056 | 0.064 | |
| A1 | 0.660 | 0.860 | 0.026 | 0.034 | |
| b | 0.330 | 0.480 | 0.013 | 0.019 | |
| b1 | 0.400 | 0.510 | 0.016 | 0.020 | |
| С | 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 | |
| е | 1.270 TYP. | | 0.050 TYP. | | |
| e1 | 2.440 | 2.640 | 0.096 | 0.104 | |
| Ĺ | 15.100 | 15.500 | 0.594 | 0.610 | |
| θ | 45° TYP. | | 45° TYP. | | |

TO-92S SUGGESTED PAD LAYOUT

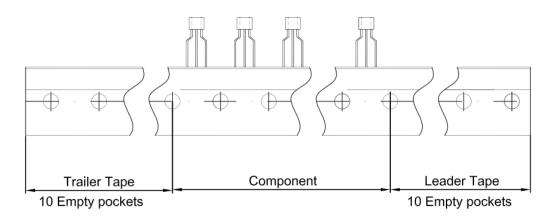


- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

TO-92S PACKAGE TAPING DIMENSION



| Dimiensions are in millimeter | | | | | | | | |
|-------------------------------|------|------|------|------|------|-----|-----|------|
| A1 | Α | Т | Р | P0 | P2 | F1 | F2 | W |
| 4.0 | 3.15 | 1.52 | 12.7 | 12.7 | 6.35 | 2.5 | 2.5 | 18.0 |
| W0 | W1 | W2 | Н | H0 | D0 | t1 | t2 | ΔΡ |
| 6.0 | 9.0 | 1.0 | 19.0 | 16.0 | 4.0 | 0.4 | 0.2 | 0 |



| Package | Вох | Box Size(mm) | Carton | Carton Size(mm) |
|---------|----------|--------------|------------|-----------------|
| TO-92S | 3000 pcs | 333×162×43 | 30,000 pcs | 350×340×250 |

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