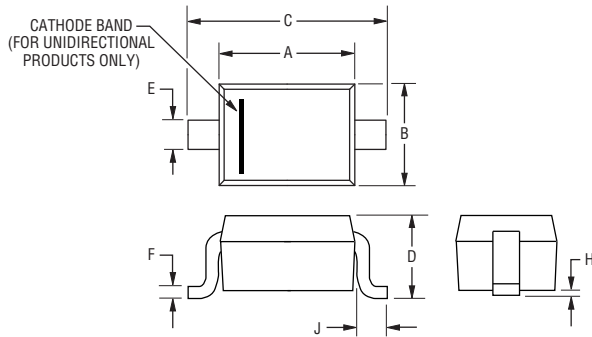


CDSOD323-TxxC - TVS Diode Array Series

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Product Dimensions

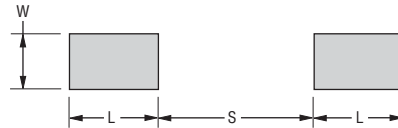
This is an RoHS compliant molded JEDEC SOD-323 package with 100 % Sn plating on the terminations. It weighs approximately 30 mg and has a flammability rating of UL 94V-0.



| Dimensions | |
|------------|---------------------------------------|
| A | $\frac{1.60 - 1.90}{(0.063 - 0.075)}$ |
| B | $\frac{1.15 - 1.45}{(0.045 - 0.057)}$ |
| C | $\frac{2.39 - 2.70}{(0.094 - 0.106)}$ |
| D | $\frac{0.92 - 1.14}{(0.036 - 0.045)}$ |
| E | $\frac{0.25 - 0.40}{(0.010 - 0.016)}$ |
| F | $\frac{0.08 - 0.20}{(0.003 - 0.008)}$ |
| H | $\frac{0.13}{(0.005)}$ MAX. |
| J | $\frac{0.30 - 0.45}{(0.012 - 0.018)}$ |

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Recommended Footprint



| Dimensions (Nominal) | |
|----------------------|------------------------|
| L | $\frac{0.80}{(0.031)}$ |
| S | $\frac{1.40}{(0.055)}$ |
| W | $\frac{0.50}{(0.020)}$ |

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Typical Part Marking

Each device has device marking outlined below and the unidirectional devices have an additional Polarity Band indicating the cathode.

| | |
|---------------|----|
| CDSOD323-T03 | 3 |
| CDSOD323-T03C | 3C |
| CDSOD323-T05 | 5 |
| CDSOD323-T05C | 5C |
| CDSOD323-T08 | 8 |
| CDSOD323-T08C | 8C |
| CDSOD323-T12 | 2 |
| CDSOD323-T12C | 2C |
| CDSOD323-T15 | 6 |
| CDSOD323-T15C | 6C |
| CDSOD323-T18 | 1 |
| CDSOD323-T18C | 1C |
| CDSOD323-T24 | 4 |
| CDSOD323-T24C | 4C |

Environmental Specifications

| | |
|----------------------------|----|
| Moisture Sensitivity Level | 1 |
| ESD Classification (HBM) | 3B |

Specifications are subject to change without notice.

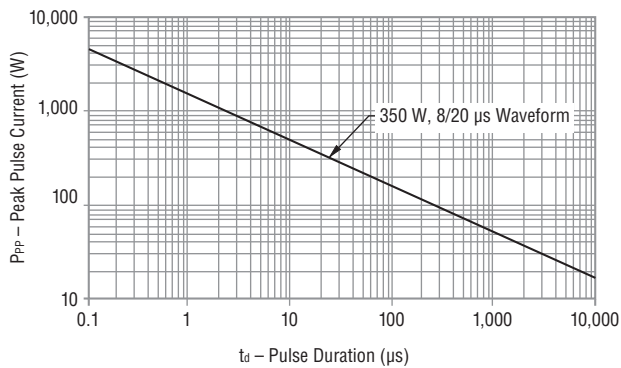
Users should verify actual device performance in their specific applications.

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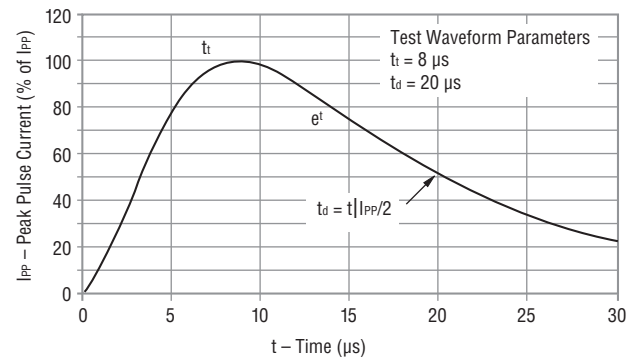
CDSOD323-TxxC - TVS Diode Array Series

Performance Graphs

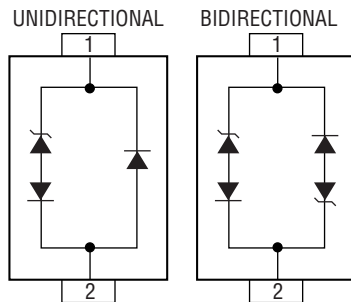
Peak Pulse Power vs Pulse Time



Pulse Waveform



Block Diagram



How to Order

CD SOD323 - T 05 C

Common Code _____
 Chip Diode _____
 Package _____
 SOD323 = SOD-323 Package
 Model _____
 T = Transient Voltage Suppressor
 Working Peak Reverse Voltage _____
 05 = 5 V_{WM} (Volts)
 Suffix _____
 C = Bidirectional Diode

Specifications are subject to change without notice.

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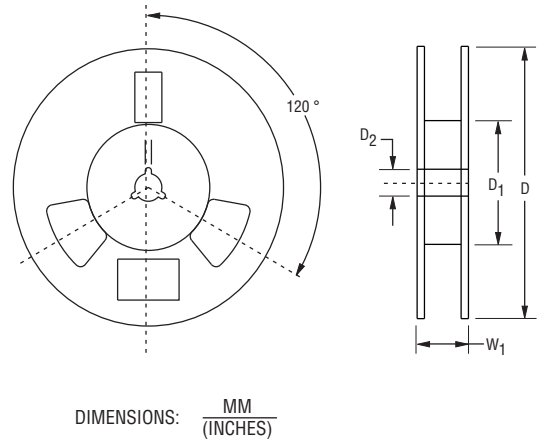
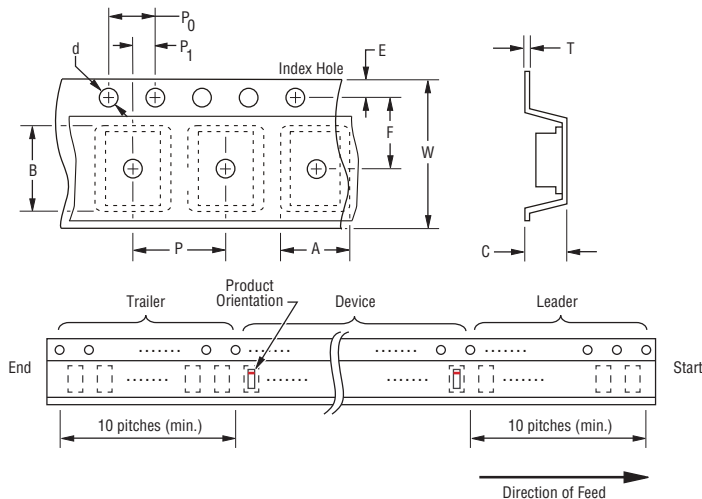
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CDSOD323-TxxC - TVS Diode Array Series

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Packaging Information

The product is packaged in tape and reel format per EIA-481 standard.



| Item | Symbol | SOD-323 |
|------------------------|----------------|---|
| Carrier Width | A | $\frac{1.55 \pm 0.10}{(0.061 \pm 0.004)}$ |
| Carrier Length | B | $\frac{2.90 \pm 0.10}{(0.114 \pm 0.004)}$ |
| Carrier Depth | C | $\frac{1.35 \pm 0.10}{(0.053 \pm 0.004)}$ |
| Sprocket Hole | d | $\frac{1.55 \pm 0.05}{(0.061 \pm 0.002)}$ |
| Reel Outside Diameter | D | $\frac{178}{(7.008)}$ |
| Reel Inner Diameter | D ₁ | $\frac{80.0}{(3.150)} \text{ MIN.}$ |
| Feed Hole Diameter | D ₂ | $\frac{13.0 \pm 0.20}{(0.512 \pm 0.008)}$ |
| Sprocket Hole Position | E | $\frac{1.75 \pm 0.10}{(0.069 \pm 0.004)}$ |
| Punch Hole Position | F | $\frac{3.50 \pm 0.05}{(0.138 \pm 0.002)}$ |
| Punch Hole Pitch | P | $\frac{4.00 \pm 0.10}{(0.157 \pm 0.004)}$ |
| Sprocket Hole Pitch | P ₀ | $\frac{4.00 \pm 0.10}{(0.157 \pm 0.004)}$ |
| Embossment Center | P ₁ | $\frac{2.00 \pm 0.05}{(0.079 \pm 0.002)}$ |
| Overall Tape Thickness | T | $\frac{0.20 \pm 0.10}{(0.008 \pm 0.004)}$ |
| Tape Width | W | $\frac{8.00 \pm 0.20}{(0.315 \pm 0.008)}$ |
| Reel Width | W ₁ | $\frac{13.5}{(0.531)} \text{ MAX.}$ |
| Quantity per Reel | -- | 3000 |

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REV. 09/19

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