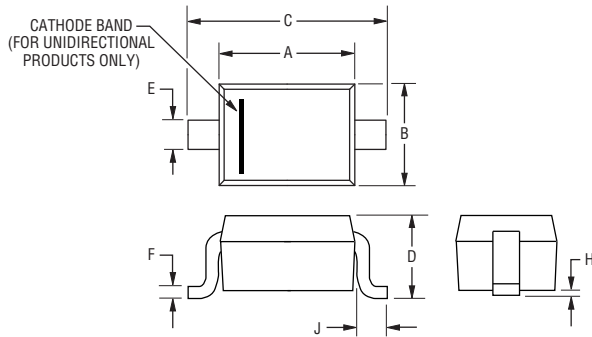


## CDSOD323-TxxC - TVS Diode Array Series

**BOURNS®**

### Product Dimensions

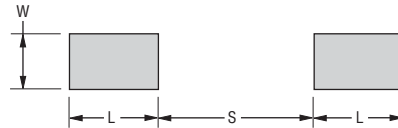
This is an RoHS compliant molded JEDEC SOD-323 package with 100 % Sn plating on the terminations. It weighs approximately 30 mg and has a flammability rating of UL 94V-0.



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.

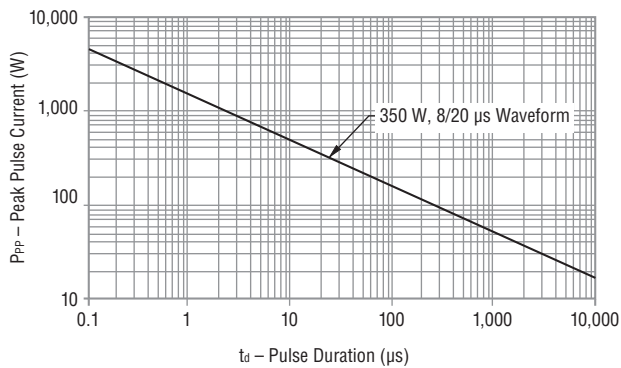
Users should verify actual device performance in their specific applications.

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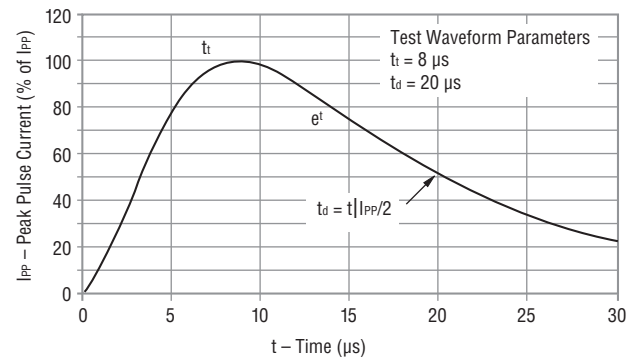
# CDSOD323-TxxC - TVS Diode Array Series

## Performance Graphs

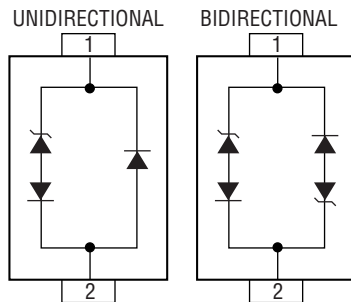
### Peak Pulse Power vs Pulse Time



### 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

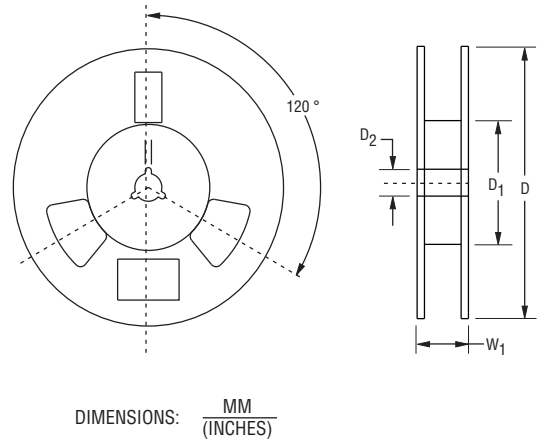
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The product is packaged in tape and reel format per EIA-481 standard.



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 <sub>1</sub>	$\frac{80.0}{(3.150)}$ MIN.
Feed Hole Diameter	D <sub>2</sub>	$\frac{13.0 \pm 0.20}{(0.512 \pm 0.008)}$
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 <sub>0</sub>	$\frac{4.00 \pm 0.10}{(0.157 \pm 0.004)}$
Embossment Center	P <sub>1</sub>	$\frac{2.00 \pm 0.05}{(0.079 \pm 0.002)}$
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 <sub>1</sub>	$\frac{13.5}{(0.531)}$ MAX.
Quantity per Reel	--	3000

**Asia-Pacific:**  
Tel: +886-2 2562-4117  
Email: [asiacus@bourns.com](mailto:asiacus@bourns.com)

**Europe:**  
Tel: +36 88 885 877  
Email: [eurocus@bourns.com](mailto:eurocus@bourns.com)

**The Americas:**  
Tel: +1-951 781-5500  
Email: [americus@bourns.com](mailto:americus@bourns.com)  
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