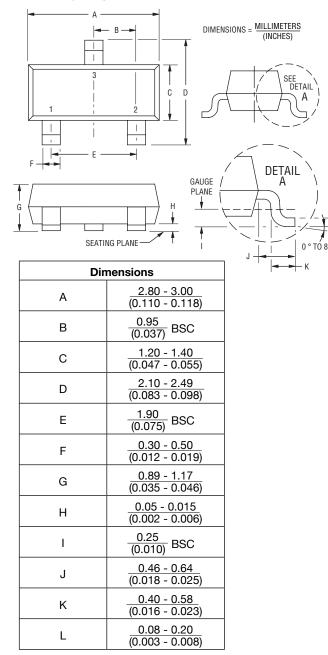
## CDS0T23-T03~T36C - TVS Diode Array Series

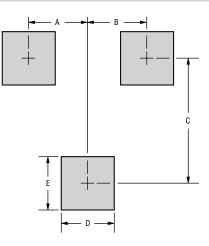
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#### **Product Dimensions**

This is a molded JEDEC SOT-323 package with 100 % Matte Sn plating on the lead frame. It weighs approximately 0.6 g and has a flammability rating of UL 94V-0.



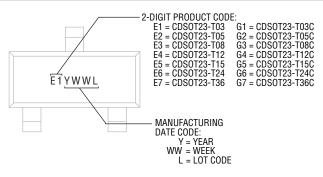
#### **Recommended Footprint**



 $DIMENSIONS = \frac{MILLIMETERS}{(INCHES)}$ 

Dimensions			
А	<u>0.95</u> (0.037)		
В	<u>0.95</u> (0.037)		
С	<u>2.00</u> (0.079)		
D	<u>0.85</u> (0.033)		
E	<u>0.85</u> (0.033)		

#### **Typical Part Marking**



Specifications are subject to change without notice.

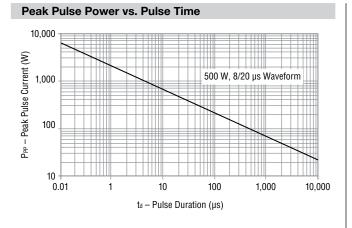
Users should verify actual device performance in their specific applications.

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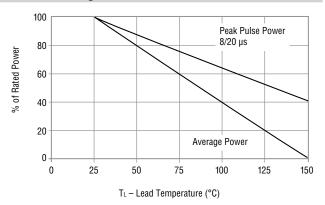
# CDS0T23-T03~T36C - TVS Diode Array Series

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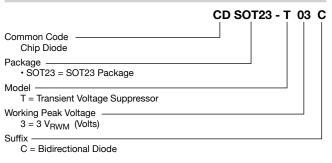
#### **Performance Graphs**



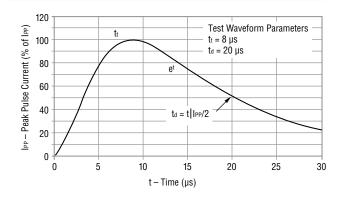
**Power Derating Curve** 





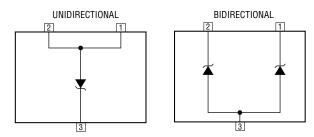


#### **Pulse Waveform**



#### **Block Diagram**

The device block diagrams below include the pin names and basic electrical connections associated with each channel.



#### **Environmental Specifications**

Moisture Sensitivity Level1	
ESD Classification (HBM)	

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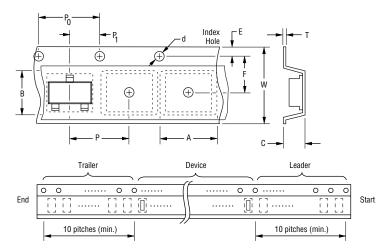
# CDS0T23-T03~T36C - TVS Diode Array Series

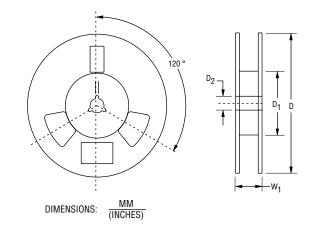
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#### **Packaging Information**

The surface mount product is packaged in an 12 mm x 8 mm tape and reel format per EIA-481 standard.

Direction of Feed





Devices are packed in accordance with EIA standard RS-481-A.



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Item	Symbol	SOT23
Carrier Width	A	$\frac{2.25 \pm 0.10}{(0.088 \pm 0.004)}$
Carrier Length	В	$\frac{2.34 \pm 0.10}{(0.092 \pm 0.004)}$
Carrier Depth	С	$\frac{1.22 \pm 0.10}{(0.048 \pm 0.004)}$
Sprocket Hole	d	$\frac{1.55 \pm 0.05}{(0.061 \pm 0.002)}$
Reel Outside Diameter	D	<u>178</u> (7.008)
Reel Inner Diameter	D <sub>1</sub>	<u>50.0</u> (1.969) 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	Р	$\frac{4.00 \pm 0.10}{(0.157 \pm 0.004)}$
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	Т	$\frac{0.20 \pm 0.10}{(0.008 \pm 0.004)}$
Tape Width	w	$\frac{8.00 \pm 0.20}{(0.315 \pm 0.008)}$
Reel Width	W <sub>1</sub>	14.4 (0.567) MAX.
Quantity per Reel		3,000

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