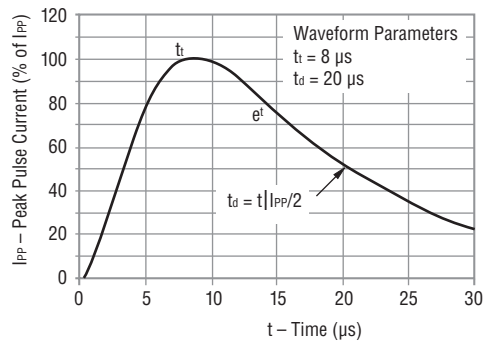


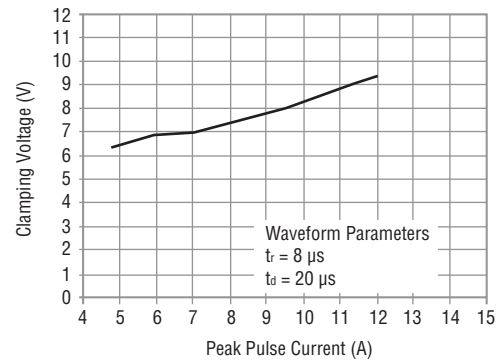
CD143A-SR2.8~3.3 - Steering/TVS Diode Array Series

Typical Characteristics

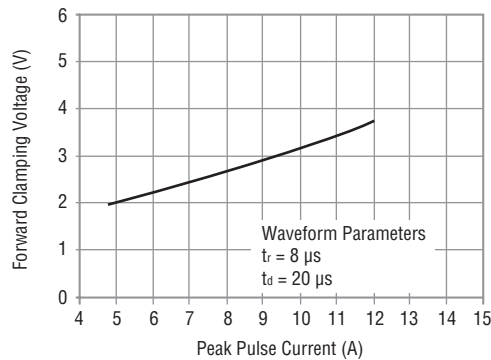
Pulse Wave Form



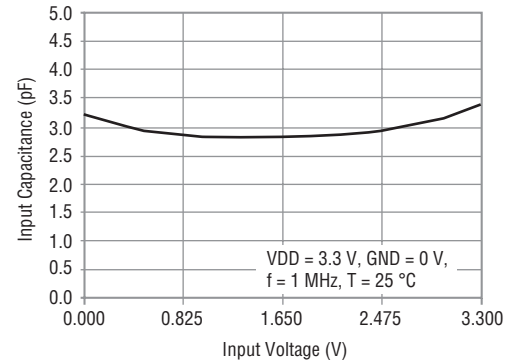
Clamping Voltage vs. Peak Pulse Current



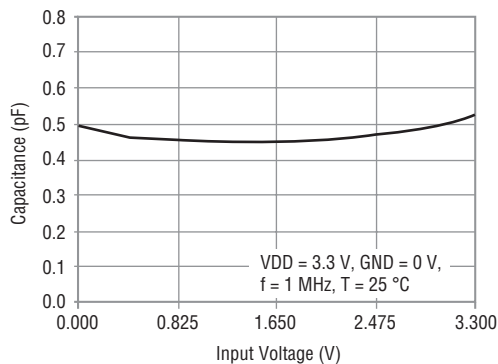
Forward Clamping Voltage vs. Peak Pulse Current



Typical Variation of C_{IN} vs. V_{IN}



Typical Variation of $C_{I/O-to-I/O}$ vs. V_{IN}



How to Order

CD 143A - SR 3.3 C

Common Code _____
 Chip Diode _____
 Package _____
 143A = SOT-143 _____
 Model _____
 SR = Steering Diode Array _____
 Repetitive Peak Reverse Voltage _____
 3.3 = 3.3 V_{RWM} (Volts) _____
 Customer Specific Requirements _____

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

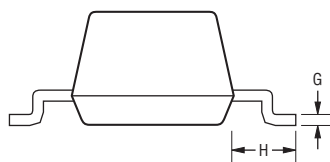
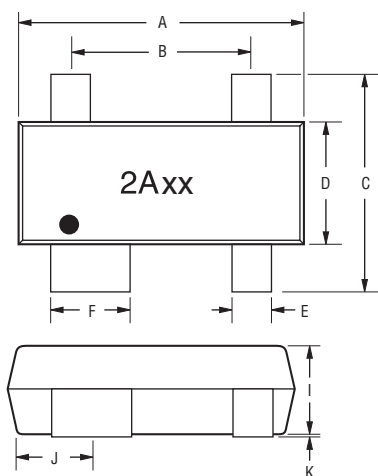
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Product Dimensions

This is a molded device. It weighs approximately 35 mg and has a flammability rating of UL 94V-0. The dimensions for the packaged device are shown below.

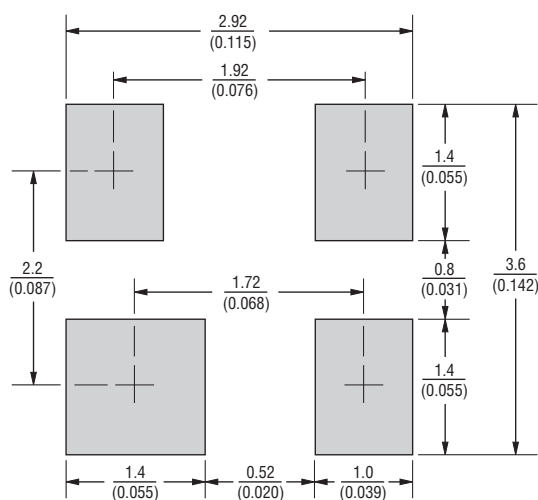


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Dimensions	
A	$\frac{2.80 - 3.04}{(0.110 - 0.12)}$
B	$\frac{1.80 - 2.02}{(0.071 - 0.080)}$
C	$\frac{2.25 - 2.55}{(0.089 - 0.100)}$
D	$\frac{1.2 - 1.4}{(0.047 - 0.055)}$
E	$\frac{0.35 - 0.50}{(0.014 - 0.020)}$
F	$\frac{0.76 - 0.89}{(0.030 - 0.035)}$
G	$\frac{0.09 - 0.18}{(0.035 - 0.007)}$
H	$\frac{0.46 - 0.60}{(0.018 - 0.024)}$
I	$\frac{0.9 - 1.1}{(0.035 - 0.043)}$
J	$\frac{0.72 - 0.83}{(0.028 - 0.033)}$
K	$\frac{0.05 - 0.1}{(0.002 - 0.004)}$

Recommended Pad Layout

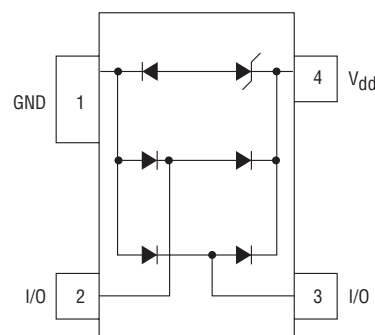
This is the footprint recommended for this SOT-143 device.



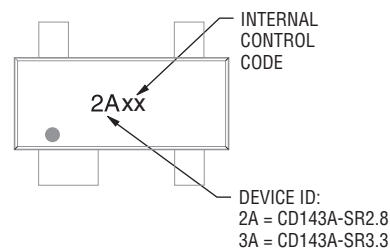
DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Block Diagram

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



Typical Part Marking



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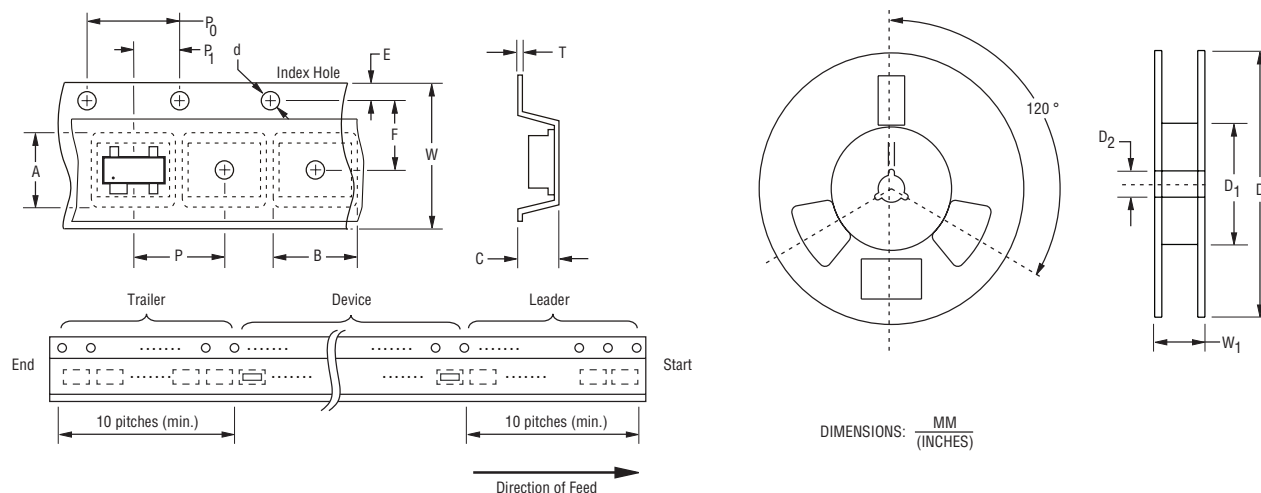
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CD143A-SR2.8~3.3 - Steering/TVS Diode Array Series

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Packaging Information

The surface mount product is packaged in an 8 mm x 4 mm tape and reel format per EIA-481 standard.



Item	Symbol	SOT-143
Carrier Width	A	$\frac{3.19 \pm 0.10}{(0.126 \pm 0.004)}$
Carrier Length	B	$\frac{2.8 \pm 0.10}{(0.110 \pm 0.004)}$
Carrier Depth	C	$\frac{1.31 \pm 0.10}{(0.052 \pm 0.004)}$
Sprocket Hole	d	$\frac{1.5 +0.1/-0}{(0.059 +0.004/-0)}$
Reel Outside Diameter	D	$\frac{180 \pm 3}{(7.087 \pm 0.012)}$
Reel Inner Diameter	D ₁	$\frac{50.0}{(1.969)} \text{ MIN.}$
Feed Hole Diameter	D ₂	$\frac{13.0 +0.5/-0.2}{(0.512 +0.020/-0.008)}$
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	$\frac{0.6}{(0.024)} \text{ MAX.}$
Tape Width	W	$\frac{8.3}{(0.327)} \text{ MAX.}$
Reel Width	W ₁	$\frac{14.4}{(0.567)} \text{ MAX.}$
Quantity per Reel	--	3,000

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