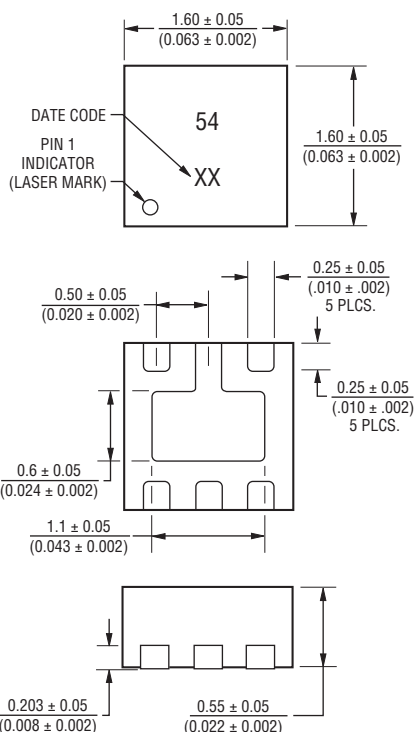


# CDDFN6-0504P - TVS/Steering Diode Array

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## Product Dimensions

This is a molded DFN6 package with lead free Nickel-Palladium-Gold (Ni/Pd/Au) on the lead frame. It has a flammability rating of UL 94V-0.

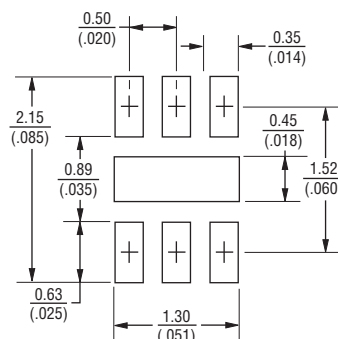


DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

## Pin Out

Pin	Function
1	I/O
2	GND
3	I/O
4	I/O
5	V <sub>CC</sub>
6	I/O
Center Tab	GND

## Recommended Footprint



## Typical Part Marking

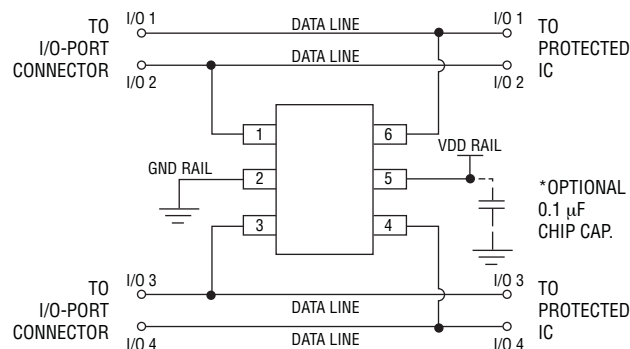
CDDFN6-0504P .....54

## How to Order

CD DFN-6 - 05 04P

Common Diode \_\_\_\_\_  
 Chip Diode \_\_\_\_\_  
 Package \_\_\_\_\_  
 DFN-6 = DFN-6 Package  
 Working Peak Reverse Voltage \_\_\_\_\_  
 05 = 5 V<sub>RWM</sub> (Volts)  
 Number of Lines \_\_\_\_\_  
 04P = 4 Data Lines

## Typical Application



Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

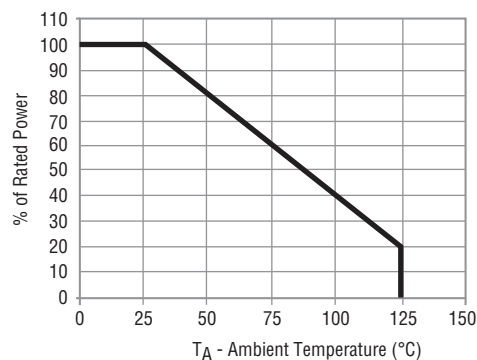
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# CDDFN6-0504P - TVS/Steering Diode Array

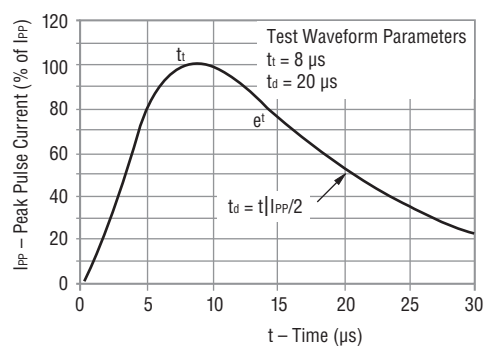
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## Rating & Characteristic Curves

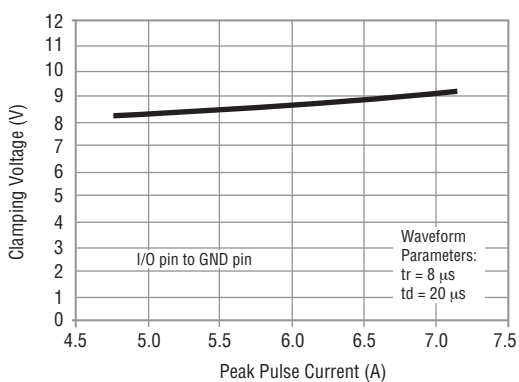
### Power Derating Curve



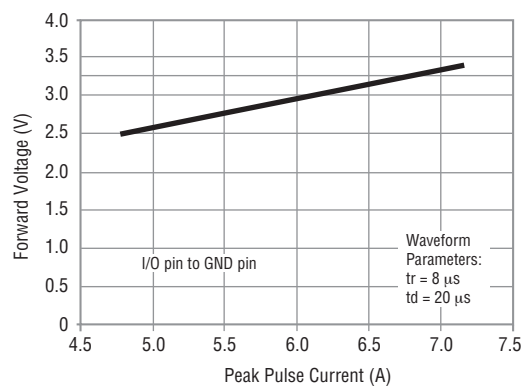
### Pulse Waveform



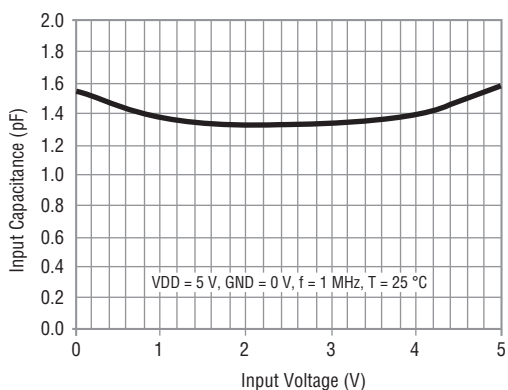
### Clamping Voltage vs. Peak Pulse Current



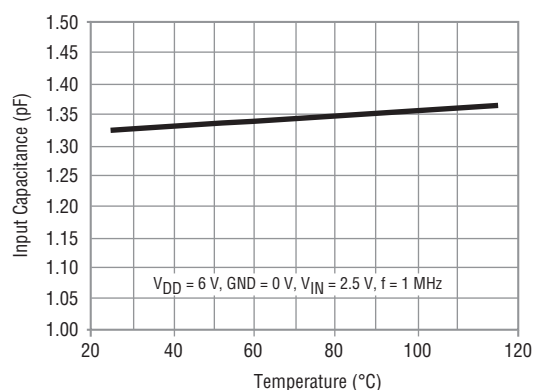
### Forward Voltage vs. Forward Current



### Capacitance vs. Line Voltage



### Capacitance vs. Temperature



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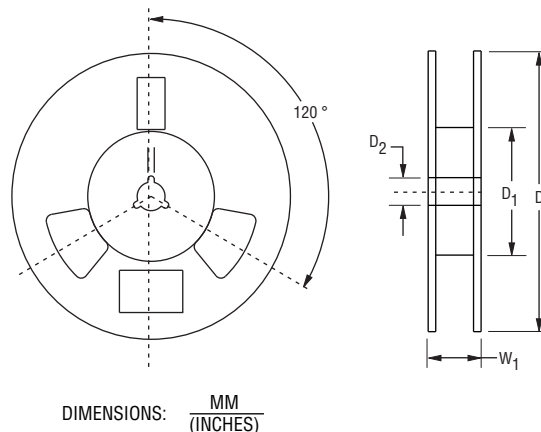
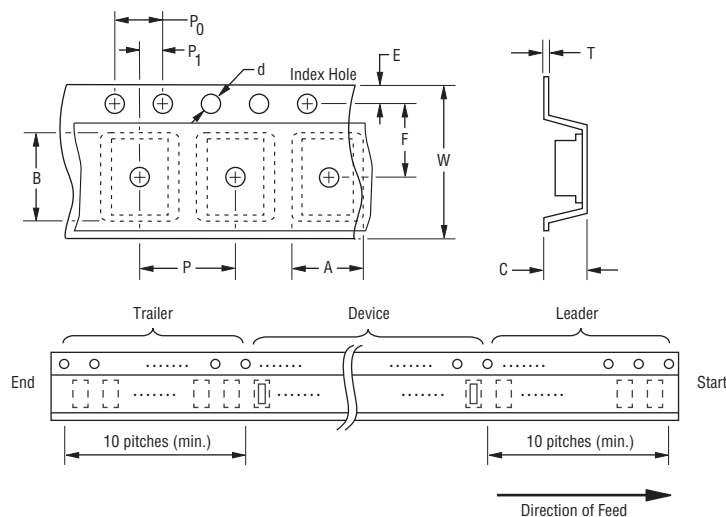
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# CDDFN6-0504P - TVS/Steering Diode Array

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## Packaging Information

The product will be dispensed in tape and reel format (see diagram below).



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

Item	Symbol	DFN-6
Carrier Width	A	$\frac{1.78 \pm 0.05}{(0.070 \pm 0.002)}$
Carrier Length	B	$\frac{1.78 \pm 0.05}{(0.070 \pm 0.002)}$
Carrier Depth	C	$\frac{0.69 \pm 0.05}{(0.027 \pm 0.002)}$
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>	$\frac{50.0}{(1.969)} \text{ MIN.}$
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>	$\frac{14.4}{(0.567)} \text{ MAX.}$
Quantity per Reel	--	3000

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