

# Applications

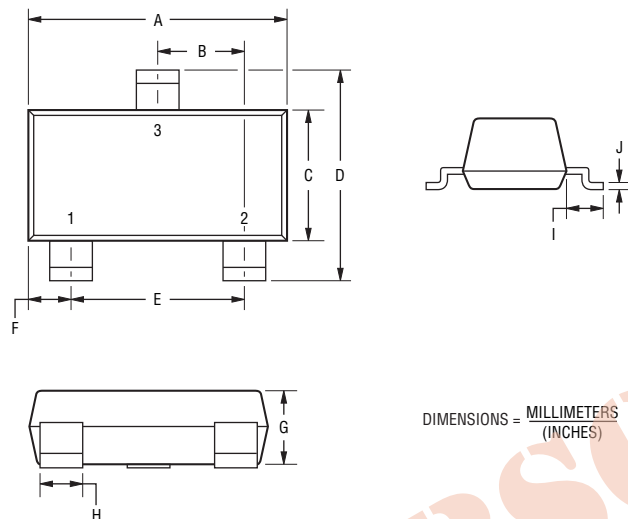
- Personal Digital Assistants (PDAs)
- Mobile phones and accessories
- Memory card protection
- SIM card port protection
- Portable electronics

CDSOT23-S2004 - Switching Diode Array

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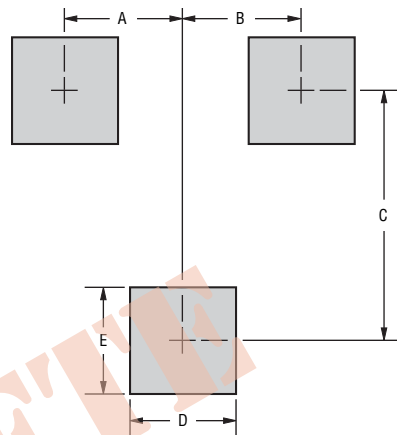
## Product Dimensions

This is an RoHS compliant molded JEDEC SOT23 package with 100 % Matte Sn on the lead frame. It weighs approximately 8 mg and has a flammability rating of UL 94V-0.



Dimensions	
A	$\frac{2.80 - 3.04}{(0.1102 - 0.1197)}$
B	$\frac{0.89 - 1.02}{(0.0350 - 0.0401)}$
C	$\frac{1.20 - 1.40}{(0.0472 - 0.0551)}$
D	$\frac{2.10 - 2.50}{(0.0830 - 0.0984)}$
E	$\frac{1.78 - 2.04}{(0.0701 - 0.0807)}$
F	$\frac{0.45 - 0.60}{(0.0177 - 0.0236)}$
G	$\frac{0.89 - 1.11}{(0.035 - 0.044)}$
H	$\frac{0.34 - 0.50}{(0.0150 - 0.0200)}$
I	$\frac{0.45 - 0.60}{(0.0180 - 0.0236)}$
J	$\frac{0.085 - 0.177}{(0.0034 - 0.0070)}$

## Recommended Footprint



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

Dimensions	
A	$\frac{0.95}{(0.037)}$
B	$\frac{0.95}{(0.037)}$
C	$\frac{2.00}{(0.079)}$
D	$\frac{0.85}{(0.033)}$
E	$\frac{0.85}{(0.033)}$

## How to Order

Common Diode \_\_\_\_\_  
Chip Diode \_\_\_\_\_  
Package \_\_\_\_\_  
SOT23 = SOT23 Package \_\_\_\_\_  
Model \_\_\_\_\_  
S = Switching Diode \_\_\_\_\_  
Working Peak Reverse Voltage \_\_\_\_\_  
2004 = 240 V<sub>RWM</sub> (Volts) \_\_\_\_\_

## Typical Part Marking

CDSOT23-S2004..... S6

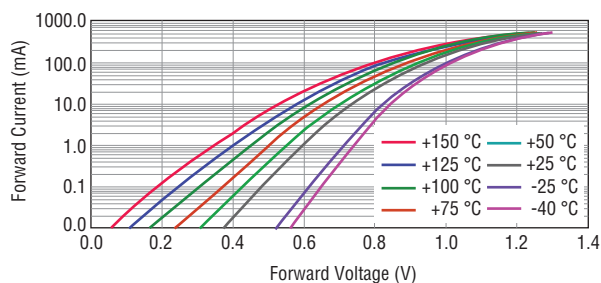
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# CDSOT23-S2004 - Switching Diode Array

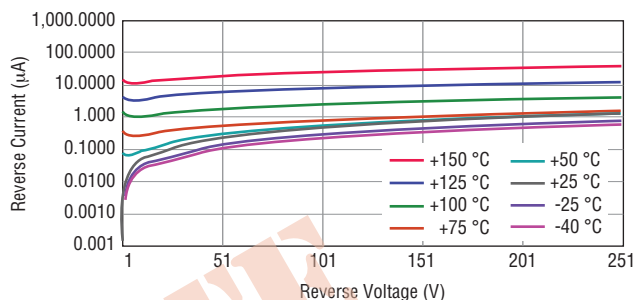
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## Performance Graphs

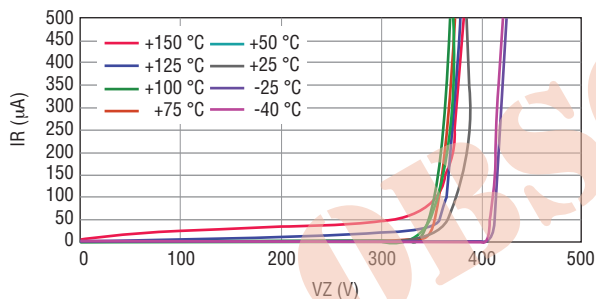
### Forward Current Characteristics



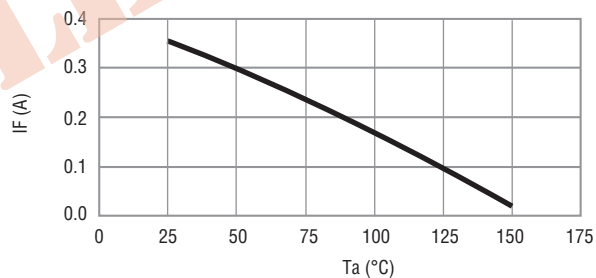
### Reverse Current Characteristics



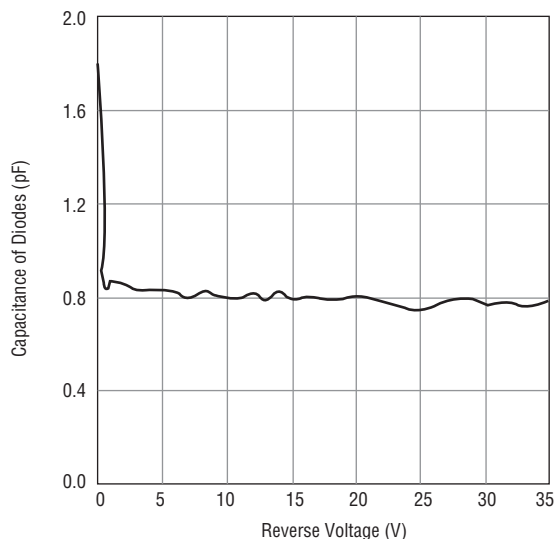
### Reverse Voltage Characteristics



### Power Derating Curve



### Typical Capacitance



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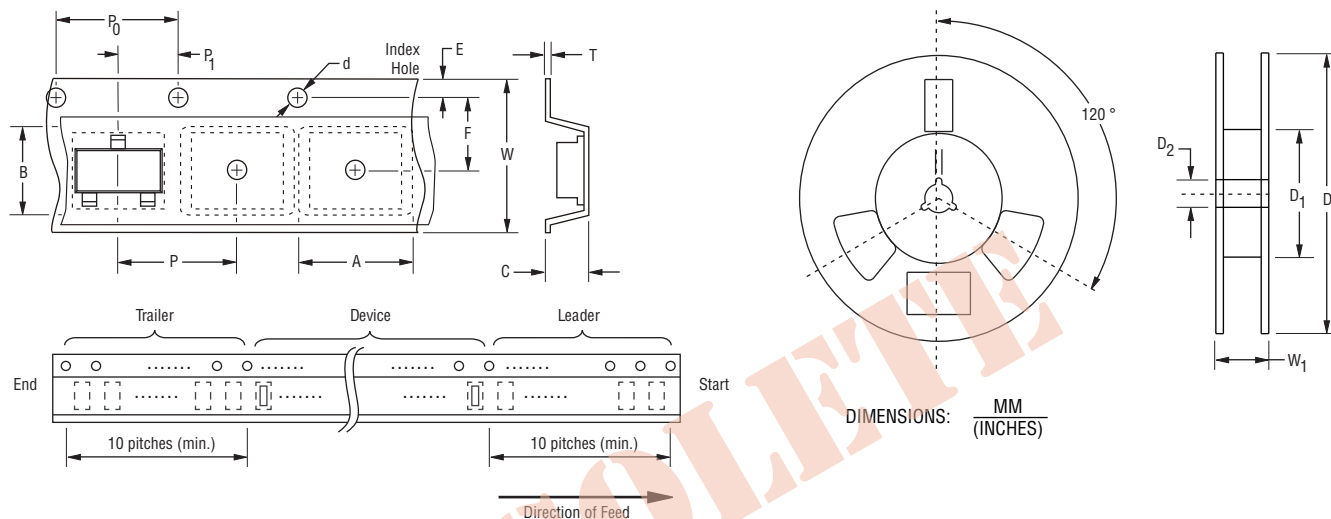
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# CDSOT23-S2004 - Switching Diode Array

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## Packaging Information

The product is packaged in a 12 mm x 8 mm tape and reel format per EIA-481-A standard.



Item	Symbol	SOT23
Carrier Width	A	$2.25 \pm 0.10$ (0.088 ± 0.004)
Carrier Length	B	$2.34 \pm 0.10$ (0.092 ± 0.004)
Carrier Depth	C	$1.22 \pm 0.10$ (0.048 ± 0.004)
Sprocket Hole	d	$1.55 \pm 0.05$ (0.061 ± 0.002)
Reel Outside Diameter	D	$178$ (7.008)
Reel Inner Diameter	D <sub>1</sub>	$50.0$ (1.969) MIN.
Feed Hole Diameter	D <sub>2</sub>	$13.0 \pm 0.20$ (0.512 ± 0.008)
Sprocket Hole Position	E	$1.75 \pm 0.10$ (0.069 ± 0.004)
Punch Hole Position	F	$3.50 \pm 0.05$ (0.138 ± 0.002)
Punch Hole Pitch	P	$4.00 \pm 0.10$ (0.157 ± 0.004)
Sprocket Hole Pitch	P <sub>0</sub>	$4.00 \pm 0.10$ (0.157 ± 0.004)
Embossment Center	P <sub>1</sub>	$2.00 \pm 0.05$ (0.079 ± 0.002)
Overall Tape Thickness	T	$0.20 \pm 0.10$ (0.008 ± 0.004)
Tape Width	W	$8.00 \pm 0.20$ (0.315 ± 0.008)
Reel Width	W <sub>1</sub>	$14.4$ (0.567) MAX.
Quantity per Reel	--	3,000

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