

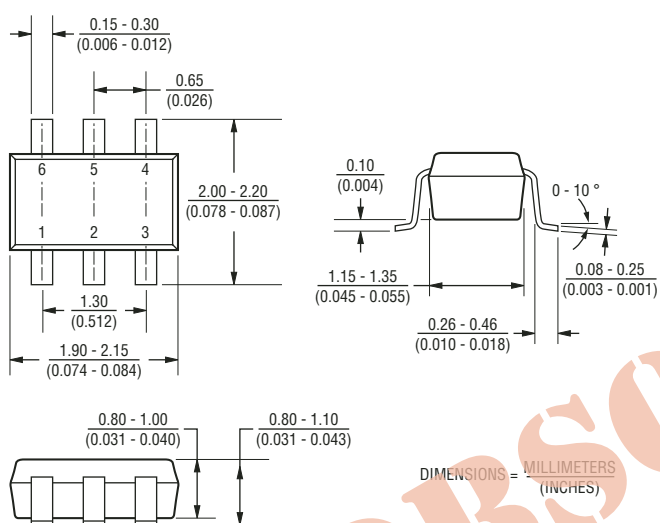
CDSC706-T05C~T24C – TVS Diode Arrays

BOURNS®

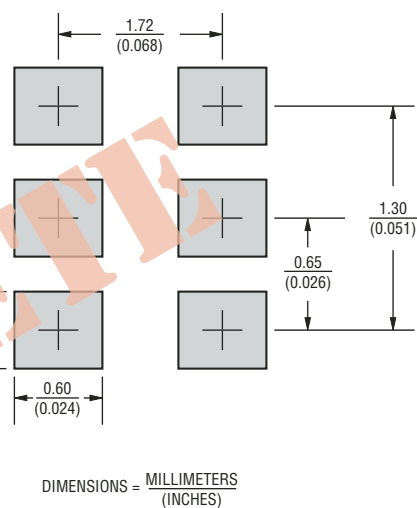
Mechanical Characteristics

This is a molded JEDEC SC70-6L package with lead free 100 % Sn plating on the terminations. It weighs approximately 7 mg.

Product Dimensions



Recommended Footprint



How To Order

CD SC706 - T 05 C

Common Code _____
 CD = Chip Diode

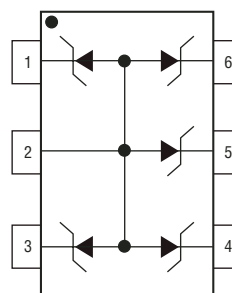
Package _____
 SC706 = SC70-6L Package

Model _____
 T = Transient Voltage Suppressor

Working Peak Reverse Voltage _____
 05 = 5 V_{WM} (Volts)

Suffix _____
 C = Bidirectional Diode

Block Diagram



Typical Part Marking

CDSC706-T05C	05C
CDSC706-T12C	12C
CDSC706-T15C	15C
CDSC706-T24C	24C

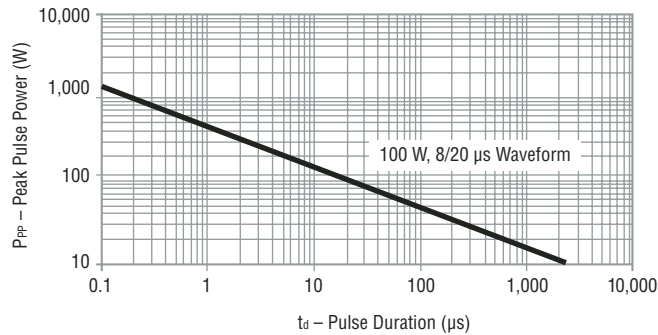
Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications.

CDSC706-T05C~T24C – TVS Diode Arrays

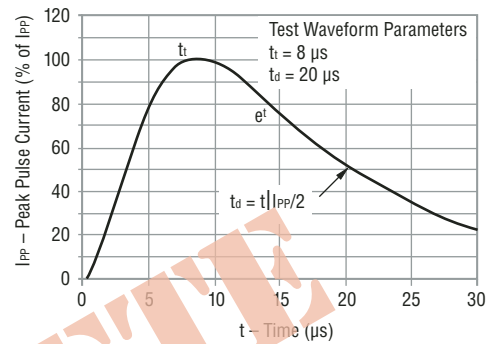
BOURNS®

Performance Graphs

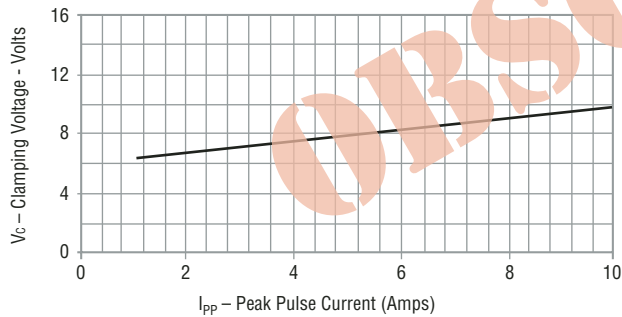
Peak Pulse Power vs Pulse Time



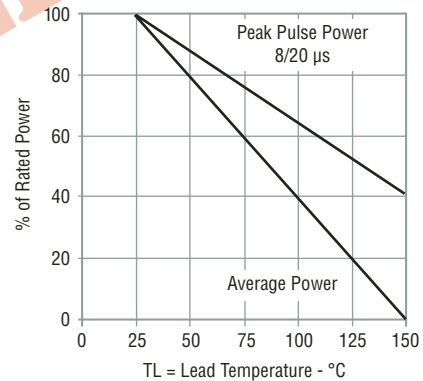
Pulse Waveform



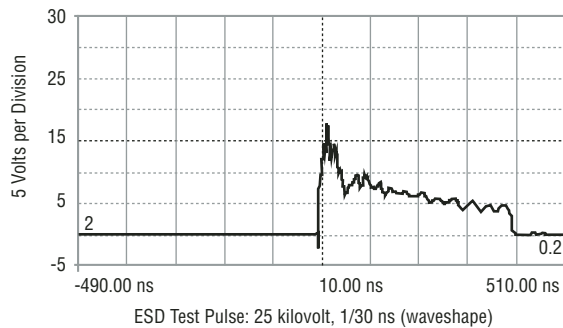
Typical Clamping Voltage vs Peak Pulse Current



Power Derating Curve



Overshoot & Clamping Voltage

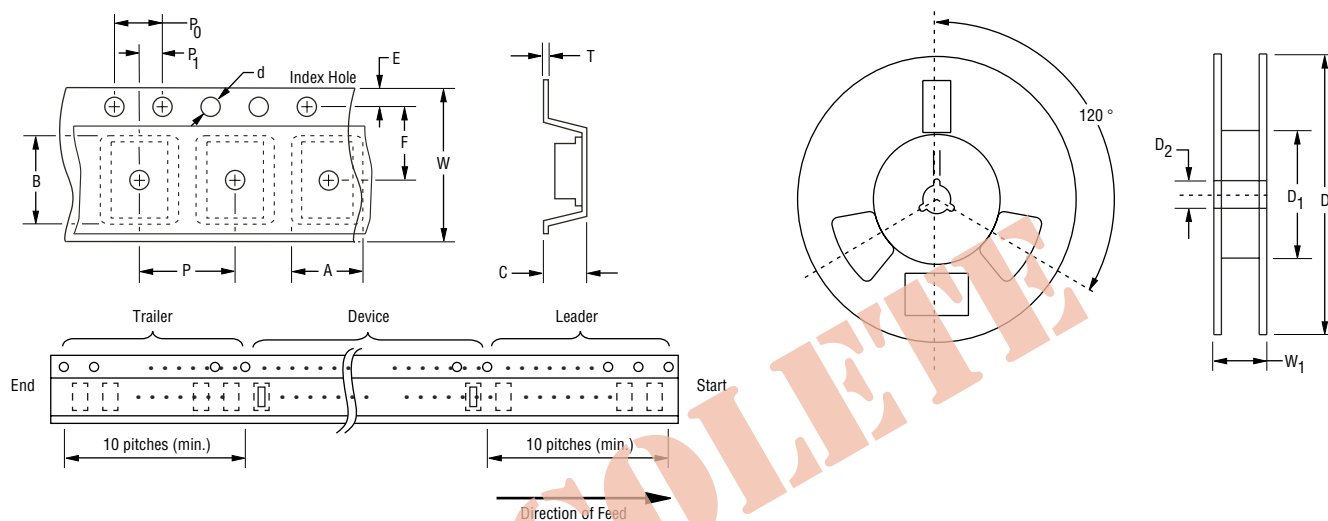


CDSC706-T05C~T24C – TVS Diode Arrays

BOURNS®

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	SC70-6L
Carrier Width	A	2.25 ± 0.10 (0.088 - 0.004)
Carrier Length	B	2.34 ± 0.10 (0.092 - 0.004)
Carrier Depth	C	1.22 ± 0.10 (0.048 - 0.004)
Sprocket Hole	d	1.55 ± 0.05 (0.061 - 0.002)
Reel Outside Diameter	D	178 (7.008)
Reel Inner Diameter	D ₁	50.0 (1.969) Min.
Feed Hole Diameter	D ₂	13.0 ± 0.20 (0.512 - 0.008)
Sprocket Hole Position	E	1.75 ± 0.10 (0.069 - 0.004)
Punch Hole Position	F	3.50 ± 0.05 (0.138 - 0.002)
Punch Hole Pitch	P	4.00 ± 0.10 (0.157 - 0.004)
Sprocket Hole Pitch	P ₀	4.00 ± 0.10 (0.157 - 0.004)
Embossment Center	P ₁	2.00 ± 0.05 (0.079 - 0.002)
Overall Tape Thickness	T	0.20 ± 0.10 (0.008 - 0.004)
Tape Width	W	8.00 ± 0.20 (0.315 - 0.008)
Reel Width	W ₁	14.4 (0.567) Max.
Quantity per Reel	—	3,000



Reliable Electronic Solutions

Asia-Pacific:

Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

Europe:

Tel: +41-41 768 5555 • Fax: +41-41 768 5510

The Americas:

Tel: +1-951 781-5500 • Fax: +1-951 781-5700

www.bourns.com