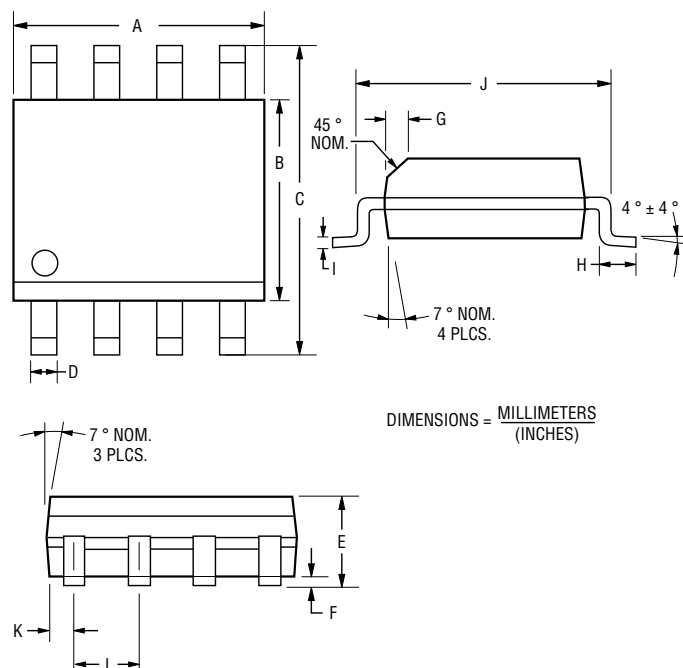


CDNBS08-T03~T36C - TVS Diode Array Series

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Product Dimensions

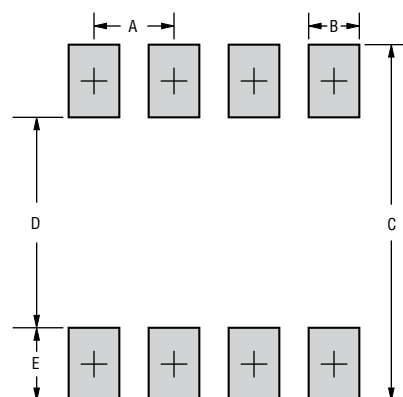
This is an RoHS compliant molded JEDEC narrow body SO-8 package with 100 % Sn plating on the lead frame. It weighs approximately 15 mg and has a flammability rating of UL 94V-0.



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

Dimensions	
A	$\frac{4.80 - 5.00}{(0.189 - 0.197)}$
B	$\frac{3.81 - 4.00}{(0.150 - 0.157)}$
C	$\frac{5.80 - 6.20}{(0.228 \pm 0.244)}$
D	$\frac{0.36 - 0.51}{(0.014 - 0.020)}$
E	$\frac{1.35 - 1.75}{(0.053 - 0.069)}$
F	$\frac{0.102 - 0.203}{(0.004 - 0.008)}$
G	$\frac{0.25 - 0.50}{(0.010 - 0.020)}$
H	$\frac{0.51 - 1.12}{(0.020 - 0.044)}$
I	$\frac{0.190 - 0.229}{(0.0075 - 0.0090)}$
J	$\frac{4.60 - 5.21}{(0.181 - 0.205)}$
K	$\frac{0.28 - 0.79}{(0.011 - 0.031)}$
L	$\frac{1.27}{(0.050)}$

Recommended Footprint



Dimensions	
A	$\frac{1.143 - 1.397}{(0.045 - 0.065)}$
B	$\frac{0.635 - 0.889}{(0.025 - 0.035)}$
C	$\frac{6.223}{(0.245)} \text{ Min.}$
D	$\frac{3.937 - 4.191}{(0.155 - 0.165)}$
E	$\frac{1.016 - 1.27}{(0.040 - 0.050)}$

Typical Part Marking

CDNBS08-T03.....SDL	CDNBS08-T12C.....SDD
CDNBS08-T03C.....SDM	CDNBS08-T15.....SDE
CDNBS08-T05.....SDA	CDNBS08-T15C.....SDF
CDNBS08-T05C.....SDB	CDNBS08-T24.....SDG
CDNBS08-T08.....SDJ	CDNBS08-T24C.....SDH
CDNBS08-T08C.....SDK	CDNBS08-T36.....SDN
CDNBS08-T12.....SDC	CDNBS08-T36C.....SDP

How to Order

Common Code	CD	NBS08	-	T	03	C
Chip Diode						
Package						
NBS08 = Narrow Body SOIC8 Package						
Model						
T = Transient Voltage Suppressor						
Working Peak Voltage						
03 = 3 V _{RWM} (Volts)						
Suffix						
C = Bidirectional Diode						

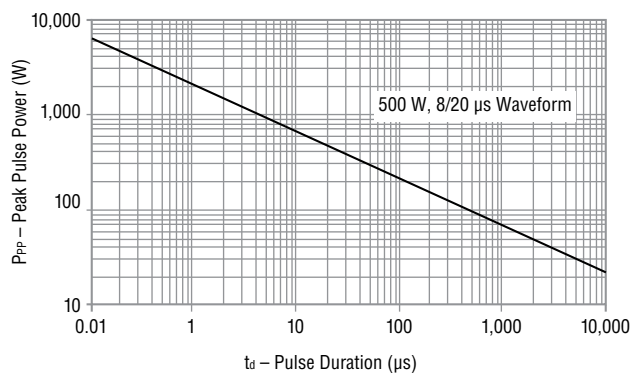
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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CDNBS08-T03~T36C - TVS Diode Array Series

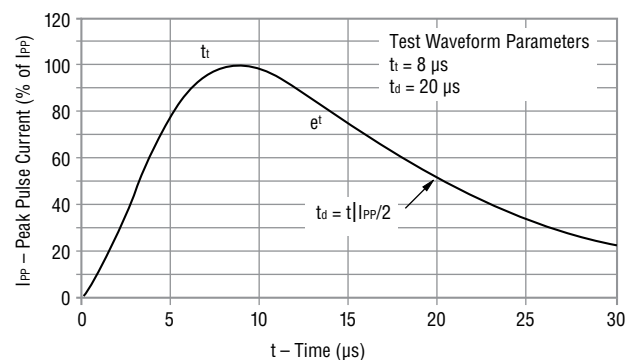
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Performance Graphs

Peak Pulse Power vs Pulse Time

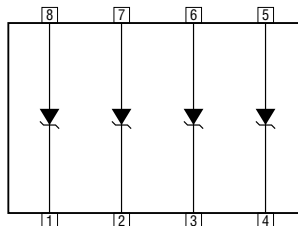


Pulse Waveform

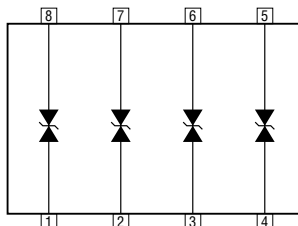


Block Diagram

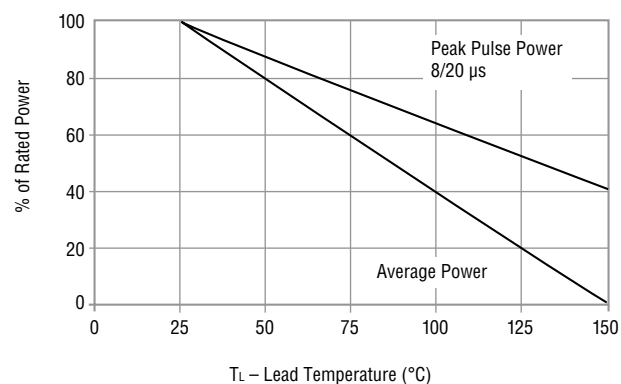
Unidirectional



Bidirectional



Power Derating Curve



Device Pinout

Pin	Function
1	I/O 1
2	I/O 2
3	I/O 3
4	I/O 4
5	GND
6	GND
7	GND
8	GND

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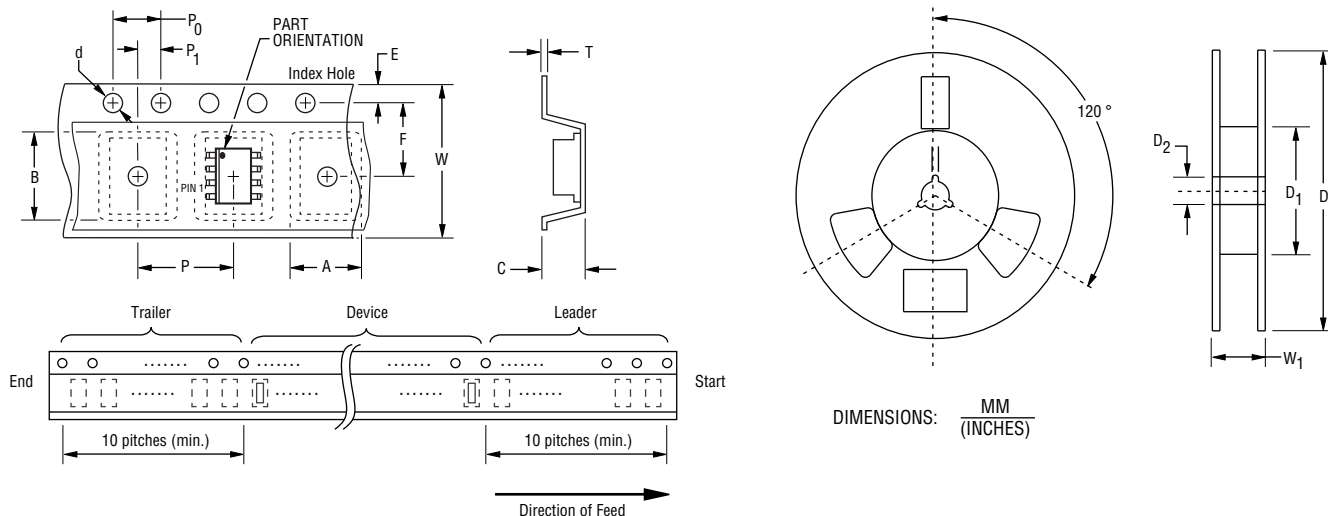
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CDNBS08-T03~T36C - TVS Diode Array Series

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Packaging Information

The product is packaged in tape and reel format per EIA-481 standard.



Item	Symbol	NSOIC 8L
Carrier Width	A	6.7 ± 0.10 (0.264 ± 0.004)
Carrier Length	B	5.5 ± 0.10 (0.217 ± 0.004)
Carrier Depth	C	2.10 ± 0.10 (0.083 ± 0.004)
Sprocket Hole	d	1.55 ± 0.05 (0.061 ± 0.002)
Reel Outside Diameter	D	330 (12.992)
Reel Inner Diameter	D ₁	80.0 (3.1500) 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	8.00 ± 0.10 (0.315 ± 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	12.00 ± 0.20 (0.472 ± 0.008)
Reel Width	W ₁	18.4 (0.724) MAX.
Quantity per Reel	--	2500

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REV. 08/19

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