

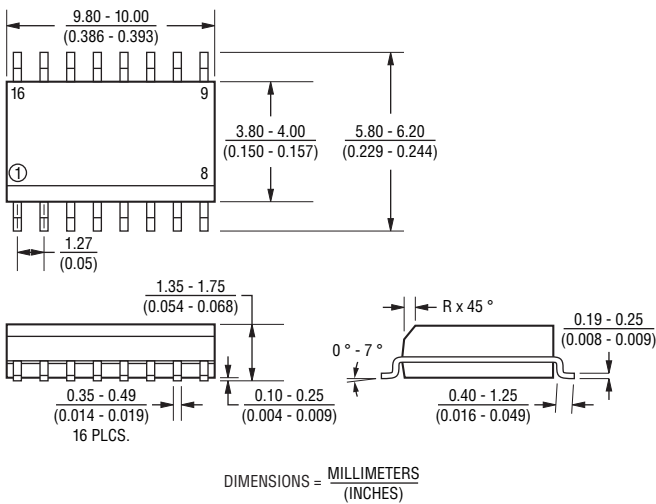
CDNBS16-T03~T36C – TVS Diode Array Series

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Mechanical Characteristics

This is a molded JEDEC Narrow Body SO-16 package with lead free 100 % Sn plating on the lead frame. It weighs approximately 30 mg and has a flammability rating of UL 94V-0.

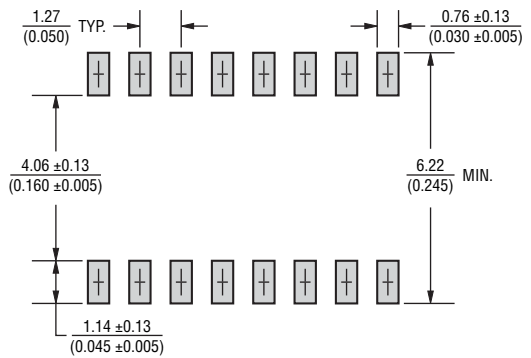
Product Dimensions



Typical Part Marking

CDNBS16-T03	CDNBS16-T03
CDNBS16-T05	CDNBS16-T05
CDNBS16-T08	CDNBS16-T08
CDNBS16-T12	CDNBS16-T12
CDNBS16-T15	CDNBS16-T15
CDNBS16-T24	CDNBS16-T24
CDNBS16-T36	CDNBS16-T36
CDNBS16-T03C	CDNBS16-T03C
CDNBS16-T05C	CDNBS16-T05C
CDNBS16-T08C	CDNBS16-T08C
CDNBS16-T12C	CDNBS16-T12C
CDNBS16-T15C	CDNBS16-T15C
CDNBS16-T24C	CDNBS16-T24C
CDNBS16-T36C	CDNBS16-T36C

Recommended Footprint



How To Order

	CD	NBS16	- T	03	C
Common Code					
Chip Diode					
Package					
NBS16 = 16L NSOIC Package					
Model					
T = Transient Voltage Suppressor					
Working Peak Reverse 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.

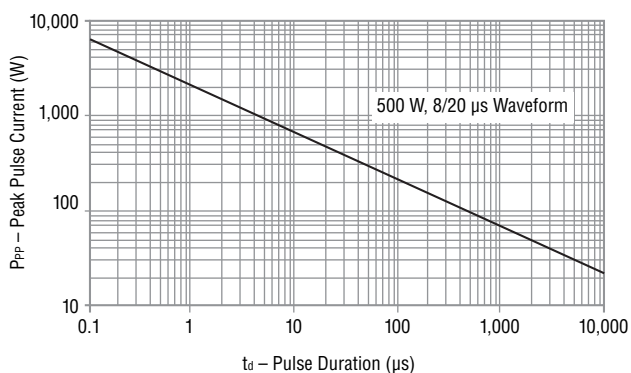
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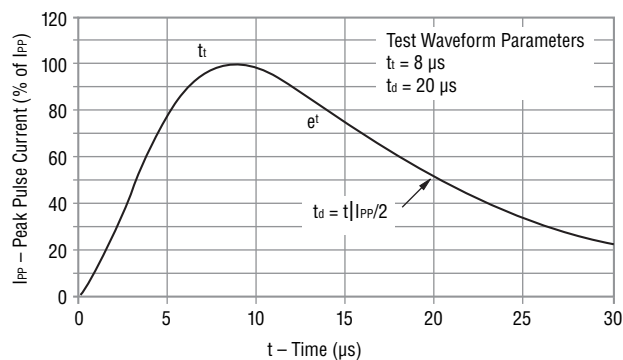
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Performance Graphs

Peak Pulse Power vs Pulse Time

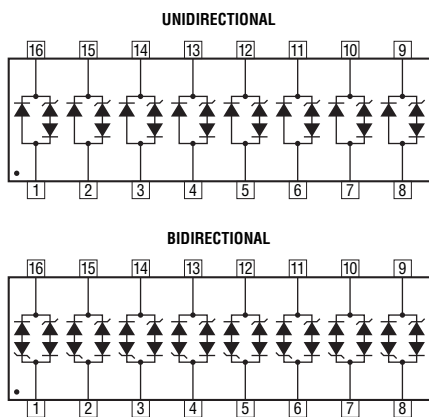


Pulse Wave Form

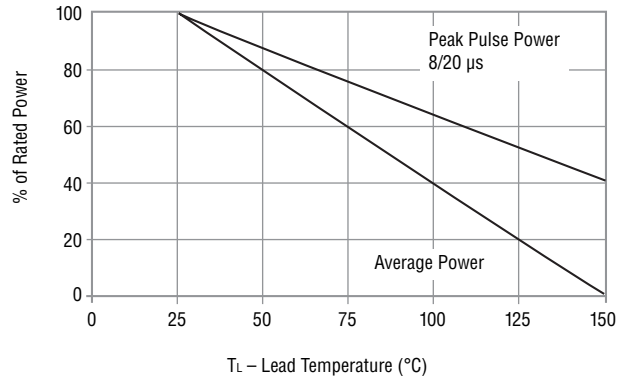


Block Diagram

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



Power Derating Curve



Device Pinout

Pin	Function	Pin	Function
1	GND	9	I/O 1
2	GND	10	I/O 2
3	GND	11	I/O 3
4	GND	12	I/O 4
5	GND	13	I/O 5
6	GND	14	I/O 6
7	GND	15	I/O 7
8	GND	16	I/O 8

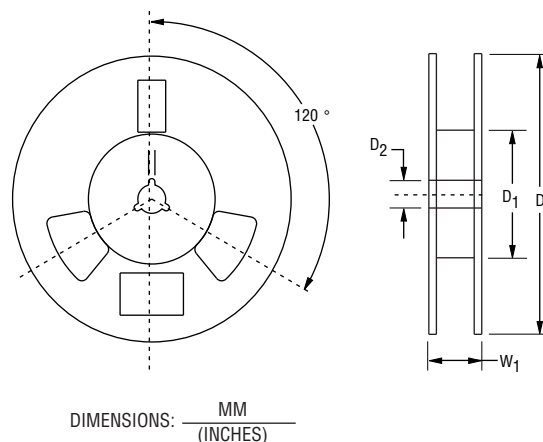
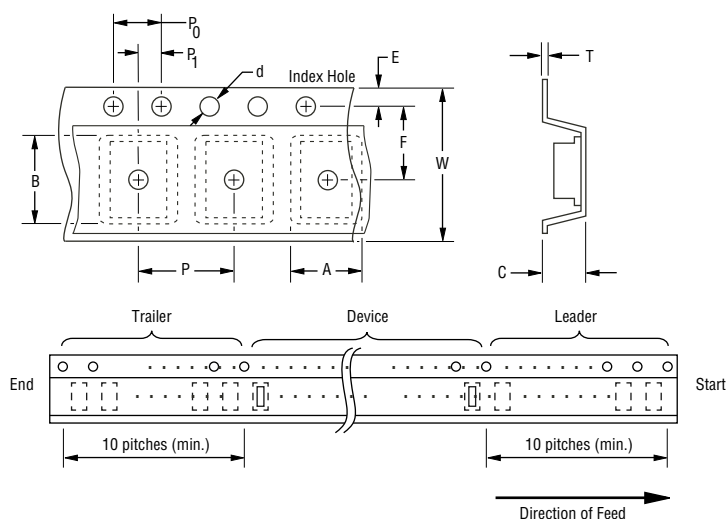
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Packaging Specifications

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	NSOIC 16L
Carrier Width	A	$\frac{6.7 \pm 0.10}{(0.264 \pm 0.004)}$
Carrier Length	B	$\frac{10.5 \pm 0.10}{0.413 \pm 0.004}$
Carrier Depth	C	$\frac{2.10 \pm 0.10}{0.083 \pm 0.004}$
Sprocket Hole	d	$\frac{1.55 \pm 0.05}{(0.061 \pm 0.002)}$
Reel Outside Diameter	D	$\frac{330}{(12.992)}$
Reel Inner Diameter	D ₁	$\frac{80.0}{(3.1500)} \text{ MIN.}$
Feed Hole Diameter	D ₂	$\frac{13.0 \pm 0.20}{(0.512 \pm 0.008)}$
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	$\frac{8.00 \pm 0.10}{(0.315 \pm 0.004)}$
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	$\frac{0.20 \pm 0.10}{(0.008 \pm 0.004)}$
Tape Width	W	$\frac{16.00 \pm 0.20}{(0.630 \pm 0.008)}$
Reel Width	W ₁	$\frac{18.4}{(0.724)} \text{ MAX.}$
Quantity per Reel	-	2500

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