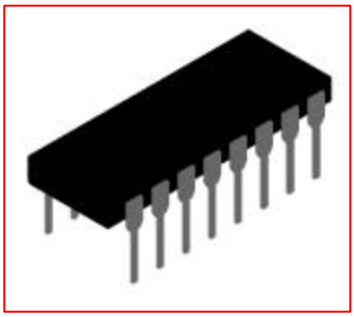
SENSITRON SEMICONDUCTOR

DLZ5 thru DLZ30
DLZ5A thru DLZ30A
DLZ8C thru DLZ30C
DLZ8CA thru DLZ30CA

TECHNICAL DATA
DATA SHEET 563, REV. B

Transient Voltage Suppressor



FEATURES:
This series of TVS devices is packaged in a ceramic, dual in-line, hermetically sealed package. These components offer 15 protective devices per package; unidirectional or bidirectional, common buss connections. The dual in-line is designed specifically for data line protection, at the PC board level. TTL and MOS voltages are available for protection of input/output data circuits.

- Unidirectional or Bidirectional
- Mil-Std-461 compatible
- 1300W peak pulse power (8/20µs)
- ESD protection > 40KV
- Multiple TVS Array
- Dual In-Line, 16 PIN Hermetic Package
- µP / mP Compatible Package
- Voltage Range of 5V to 30V Available
- Common Buss Configuration
- Military Environment Capability

MAXIMUM RATINGS

Rating	Condition	Minimum	Maximum	Units
Peak Pulse Power Dissipation	@ 25°, (8x20µs)	-	1300	Watts
Clamping ($t_{clamping}$)	0 Volts to $V_{(BR)}$ - Unidirectional - Bi-directional	-	$< 1x10^{-12}$ $< 5x10^{-9}$	Seconds
Operating & Storage Temp.	N/A	-55	+ 150	°C
Forward Surge Current	1/120 sec. @ 25°C (unidirectional)	-	10	Amps

MECHANICAL CHARACTERISTICS

HERMETICALLY SEALED PACKAGE
CASE: Ceramic, 16 pin dual in-line (.300" row spacing)
POLARITY: Pin No. 1 marked with a flag on lead and a dot on top of package. Body marked with type number.
WEIGHT: 3.5 grams (approx.)

SCREENING:
- Standard Catalog Screening
- Option H1: 100% JANTX Screening
- Option H2: 100% JANTX Screening with Group B testing

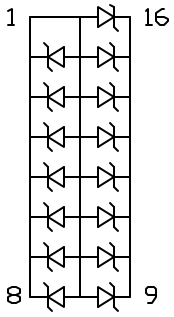
DLZ5 thru DLZ30
DLZ5A thru DLZ30A
DLZ8C thru DLZ30C
DLZ8CA thru DLZ30CA

SENSITRON

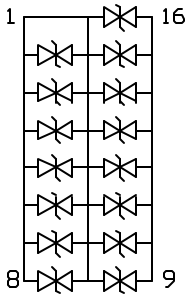
TECHNICAL DATA
DATA SHEET 563, REV. B

Part Number	Reverse Stand-Off Voltage V_{WM} Volts	Minimum Breakdown Voltage @ 1 mA $V_{(BR)}$ Volts	Maximum Clamping Voltage @ I_{PP2} = 1A (8x20µs) V_{c1} Volts	Maximum Clamping Voltage @ I_{PP2} (8x20µs) V_{c2} Volts	Maximum Reverse Leakage @ V_{wm} I_D µA	Maximum Voltage Temperature Variation of $V_{(BR)}$ MV/C
Unidirectional						
DLZ5	5.0	6.0	10.2	19.2V @ 66A	200	5.0
DLZ5A	5.0	6.0	9.5	18.1V @ 70A	200	5.0
DLZ12	12	13.3	21.1	33.0V @ 41A	2.0	18
DLZ12A	12	13.3	19.1	28.0V @ 48A	2.0	18
DLZ17	17	19.2	30.4	40.0V @ 33A	2.0	20
DLZ17A	17	19.2	27.5	37.4V @ 35A	2.0	20
DLZ24	24	26.7	42.3	62.4V @ 21A	2.0	31
DLZ24A	24	26.7	38.3	50.5V @ 26A	2.0	31
DLZ30	30	33.3	52.8	62.9V @ 21A	2.0	39
DLZ30A	30	33.3	47.8	60.0V @ 24A	2.0	39
Bi-directional						
DLZ8C	8.0	8.5	13.4	29.0V @ 45A	10	9.0
DLZ8CA	8.0	8.5	12.2	26.5V @ 49A	10	9.0
DLZ13C	13	14.4	22.8	34.0V @ 39A	4.0	18
DLZ13CA	13	14.4	20.6	31.0V @ 43A	4.0	18
DLZ19C	19	21.6	34.2	47.6V @ 28A	4.0	24
DLZ19CA	19	21.6	31.0	40.5V @ 33A	4.0	24
DLZ30C	30	33.3	52.8	68.7V @ 19A	4.0	39
DLZ30CA	30	33.3	47.8	62.5V @ 21A	4.0	39

TYPICAL UNI-DIRECTIONAL SCHEMATIC



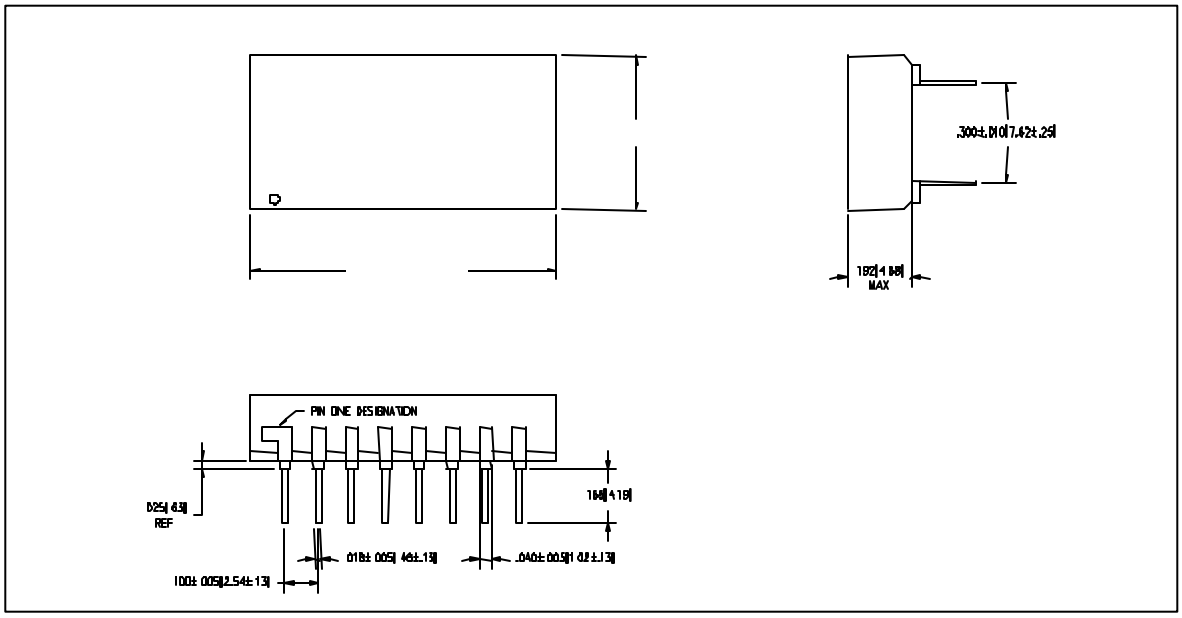
TYPICAL BI-DIRECTIONAL SCHEMATIC



DLZ5 thru DLZ30
DLZ5A thru DLZ30A
DLZ8C thru DLZ30C
DLZ8CA thru DLZ30CA

SENSITRON
TECHNICAL DATA
DATA SHEET 563, REV. B

MECHANICAL DIMENSIONS: In Inches / mm



TECHNICAL DATA

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