

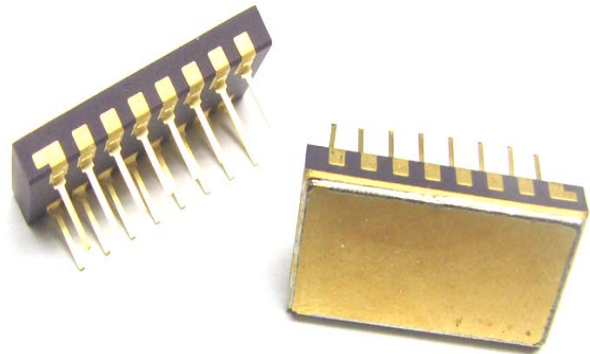
TECHNICAL DATA
DATA SHEET 563, REV. E

Transient Voltage Suppressor / Data Line Transient Suppressor

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 for data line protection at the PC board level. TTL and MOS voltages are available for protection of input/output data circuits.

FEATURES

- ◆ Unidirectional or Bidirectional
- ◆ Mil-Std-461 Compatible
- ◆ 1300W Peak Pulse Power (8/20 μ s)
- ◆ ESD Protection > 40KV
- ◆ Multiple TVS Array
- ◆ Dual In-Line, 16 PIN Hermetic Package
- ◆ μ P / 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°, (8x20 μ s)	-	1300	Watts
Clamping ($t_{clamping}$)	0 Volts to $V_{(BR)}$ - Unidirectional - Bi-directional	-	$< 1 \times 10^{-12}$ $< 5 \times 10^{-9}$	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

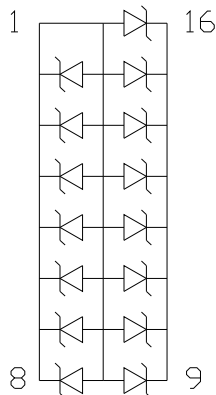
SENSITRON

TECHNICAL DATA

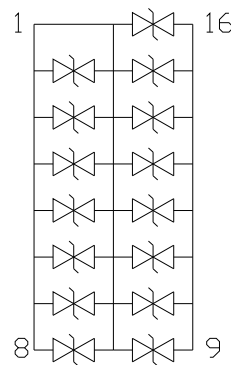
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Part Number	Reverse Stand-Off Voltage V_{WM} Volts	Minimum Breakdown Voltage @ 1 mA $V_{(BR)}$ Volts	Maximum Clamping Voltage @ $I_{PP1} = 1A$ (8x20 μ s) V_{c1} Volts	Maximum Clamping Voltage @ $I_{PP2} = 10A$ (8x20 μ s) V_{c2} Volts	Maximum Reverse Leakage @ V_{WM} I_D μ A	Maximum Capacitance @ 0V, 1MHz C pF	Maximum Voltage Temperature Variation of $V_{(BR)}$ mV/C
Unidirectional							
DLZ5	5.0	6.0	10.2	12.5	200	880	5
DLZ5A	5.0	6.0	9.5	10.6	200	880	5
DLZ12	12	13.3	21.1	26.0	2	440	18
DLZ12A	12	13.3	19.1	23.5	2	440	18
DLZ17	17	19.2	30.4	37.4	2	330	20
DLZ17A	17	19.2	27.5	33.9	2	330	20
DLZ24	24	26.7	42.3	52.1	2	275	31
DLZ24A	24	26.7	38.3	47.2	2	275	31
DLZ30	30	33.3	52.8	65.0	2	220	39
DLZ30A	30	33.3	47.8	58.8	2	220	39
Bidirectional							
DLZ8C	8.0	8.5	13.4	16.6	30	440	9
DLZ8CA	8.0	8.5	12.2	15.0	30	440	9
DLZ13C	13	14.4	22.8	28.1	4	385	18
DLZ13CA	13	14.4	20.6	25.4	4	385	18
DLZ19C	19	21.6	34.2	42.1	4	275	24
DLZ19CA	19	21.6	31.0	38.1	4	275	24
DLZ30C	30	33.3	52.8	65.0	4	165	39
DLZ30CA	30	33.3	47.8	58.8	4	165	39

TYPICAL UNIDIRECTIONAL SCHEMATIC



TYPICAL BIDIRECTIONAL SCHEMATIC



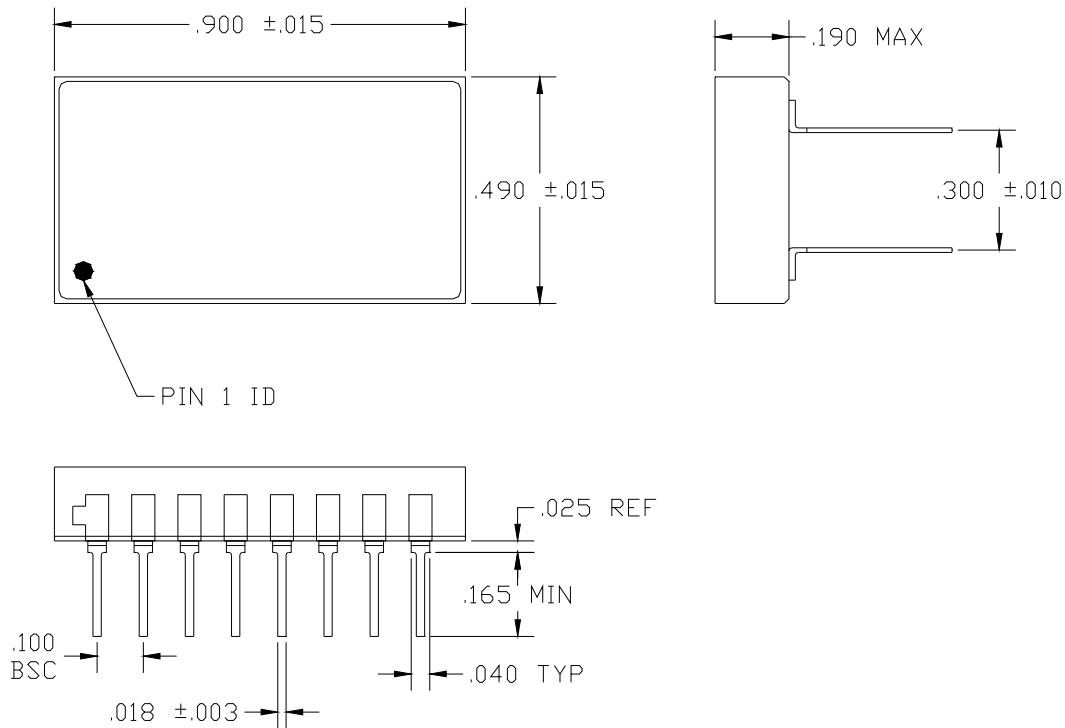
**DLZ5 thru DLZ30
DLZ5A thru DLZ30A
DLZ8C thru DLZ30C
DLZ8CA thru DLZ30CA**

SENSITRON

TECHNICAL DATA

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MECHANICAL DIMENSIONS: In Inches / mm



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