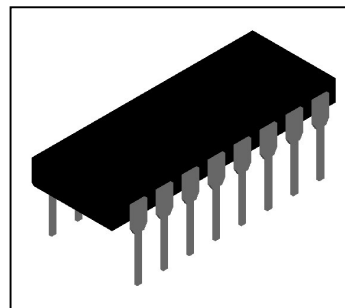


TECHNICAL DATA
DATA SHEET 563, REV. A

**DLZ5 ~ DLZ30A UNI-DIRECTIONAL &
DLZ8C ~ DLZ30CA BI-DIRECTIONAL**



Transient Voltage Suppressor

FEATURES:

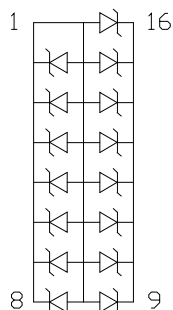
This series of TVS devices is packaged in a ceramic, dual in-line, hermetically sealed package. These components offer 15 protective devices; unidirectional or bidirectional, common buss connections, per package. The dual in-line is designed specifically for data line protection, at the P.C. board level.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

- ◆ Equivalent Industry Standard Part Numbers – DLZ5 – DLZ30A & DLZ8C – DLZ30CA
- ◆ Unidirectional or Bidirectional
- ◆ Multiple TVS Array
- ◆ Dual In-Line, 16 PIN Hermetic Package
- ◆ Low Capacitance
- ◆ μP / mP Compatible Package
- ◆ Voltage Range of 5V to 100V Available
- ◆ Common Buss Configuration
- ◆ Military Environment Capability

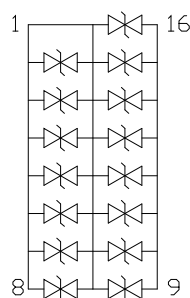
MAXIMUM RATINGS

Rating	Condition	Minimum	Maximum	Units
Peak Pulse Power Dissipation	@ 25°, (8x20 μs)	-	500	Watts
t_{clamping}	0 Volts to V_{BR} - Unidirectional - Bi-directional	-	$< 1 \times 10^{-12}$ $< 5 \times 10^{-9}$	Seconds
Operating & Storage Temp.	-	-55	+ 150	°C
Forward Surge Current	1/120 sec. @ 25°C (unidirectional)	-	10	Amps
Duty Cycle	-	-	0.01	%

**TYPICAL UNI-DIRECTIONAL
SCHEMATIC**



**TYPICAL BI-DIRECTIONAL
SCHEMATIC**



**TECHNICAL DATA
DATA SHEET 563, REV. A**

MECHANICAL CHARACTERISTICS

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.)

Part Number	Reverse Stand-Off Voltage V_{WM} Volts	Minimum Breakdown Voltage @ 1 mA $V_{(BR)}$ Volts	Maximum Clamping Voltage @ $I_{PP2} = 1A$ (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 μA	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	5.0
DLZ5A	5.0	6.0	9.5	10.6	200	880	5.0
DLZ12	12	13.3	21.1	26.0	2.0	440	18
DLZ12A	12	13.3	19.1	23.5	2.0	440	18
DLZ17	17	19.2	30.4	37.4	2.0	330	20
DLZ17A	17	19.2	27.5	33.9	2.0	330	20
DLZ24	24	26.7	42.3	52.1	2.0	275	31
DLZ24A	24	26.7	38.3	47.2	2.0	275	31
DLZ30	30	33.3	52.8	65.0	2.0	220	39
DLZ30A	30	33.3	47.8	58.8	2.0	220	39
Bi-directional							
DLZ8C	8.0	8.5	13.4	16.6	10	440	9.0
DLZ8CA	8.0	8.5	12.2	15.0	10	440	9.0
DLZ13C	13	14.4	22.8	28.1	4.0	385	18
DLZ13CA	13	14.4	20.6	25.4	4.0	385	18
DLZ19C	19	21.6	34.2	42.1	4.0	275	24
DLZ19CA	19	21.6	31.0	38.1	4.0	275	24
DLZ30C	30	33.3	52.8	65.0	4.0	165	39
DLZ30CA	30	33.3	47.8	58.8	4.0	165	39

MECHANICAL DIMENSIONS: In Inches / mm

