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SILICON 3-LAYER BILATERAL TRIGGERS

... Annular, two terminal devices that exhibit bi-directional negative resistance switching characteristics. These economical, durable devices have been developed for use in thyristor triggering circuits for lamp drivers and universal motor speed controls.

- Switching Voltage Range – 20 to 36 Volts Nominal
- Symmetrical Characteristics
- Passivated Surface for Reliability and Uniformity

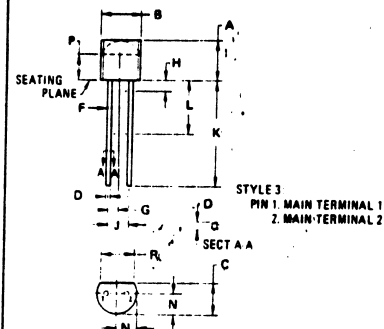
*MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Rating	Symbol	Value	Unit
Peak Pulse Current (30 μs duration, 120 Hz repetition rate)	I_{pulse}	2.0	Amp
Power Dissipation @ $T_A = -40$ to $+25^\circ\text{C}$ Derate above 25°C	P_D	300 4.0	mW mW/ $^\circ\text{C}$
Operating Junction Temperature Range	T_J	-40 to +100	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40 to +150	$^\circ\text{C}$

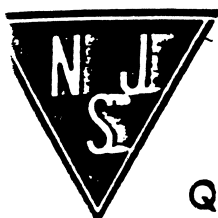
*ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Switching Voltage (Both Directions)	V_S			Volts
1N5758		16	24	
1N5759		20	28	
1N5760		24	32	
1N5761		28	36	
1N5762		32	40	
1N5758A		18	22	
1N5759A		22	26	
1N5760A		26	30	
1N5761A		30	34	
1N5762A		34	38	
Switching Current (Both Directions)	I_S			μA
1N5758/5762		—	100	
($T_A = -40$ to $+75^\circ\text{C}$) 1N5758A, 5762A		—	25	
Switching Voltage Change (Both Directions)	ΔV			Volts
1N5758.A, 1N5759.A		5.0	—	
($\Delta I = I_S$ to $I = 10 \text{ mA}$) 1N5760.A, 61.A, 62.A		7.0	—	
Leakage Current (Both Directions), (Applied Voltage = 14 Volts)	I_B	—	10	μA
Switching Voltage Symmetry	$(V_{S+}) - (V_{S-})$			Volts
1N5758/5762		—	± 4.0	
1N5758A/5762A		—	± 2.0	
Peak Pulse Amplitude (Figure 1) (Both Polarities)				Volts
1N5758.A, 1N5759.A		3.0	—	
1N5760.A, 61.A, 62.A		5.0	—	

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DIM	MIN	MAX	MIN	MAX
A	4.32	5.33	0.170	0.210
B	4.45	5.21	0.175	0.205
C	3.18	4.19	0.125	0.165
D	0.354	0.533	0.014	0.021
E	0.407	0.482	0.016	0.019
F	1.27 BSC	0.050 BSC		
G	—	1.27	—	0.050
H	2.54 BSC	0.100 BSC		
I	12.70	—	0.500	—
J	6.35	—	0.250	—
K	2.03	2.66	0.080	0.105
L	2.93	—	0.115	—
M	3.43	—	0.135	—



Quality Semi-Conductors