A261 NEON DISPLAY LAMP

- Signalite A261 is designed to replace digital readout tubes as numeral 1, + and − readouts.
- Specific uses for over-range, plus and minus positions in digital voltmeters and other digital readout equipment.
- Features excellent light output, long life, low cost and offers space savings.

Breakdown Voltage	Maintaining Voltage	Design Current	Circuit Voltage	Life	Corona Length	Envelope MOL Inch (mm)	Dimensions Envelope Max. Dia. Inch (mm)	Lead Length Inch (mm)
90 vdc max.	75 vdc max.	1.5 ma	150 vdc min.	2000 hours (continuous)	.55" (approx.) 14 mm	1.3125" (33.3)	.244" (6.2)	1.0" ±.0625 (25.4 ± 1.6)

Notes: • Tinned Leads • Pre-Aged • Dark Effect Reduced • 90% Corona Coverage • Anode (+) Identified by Green Dot

V SERIES VOLTAGE REGULATOR AND REFERENCE TUBES

- temp. coef. less than 15 mv/°C
- life greater than 20,000 hours
- stacking capability for higher voltage regulation

Signalite Type	Breakdown Voltage vdc max.	Reference Voltage Meas. At		Current Range* For Regulator	Operating Current ma		
		vdc	ma	ma	Max.[3]	Min. as Shunt Reg.	Min. in Parrallel with a Capacitor
V83R4	115	83 ± 2	1.5	0.25—4.0	6.0	0.25	0.4
V84R2	115	84 ± 2	1.0	0.15—2.0	3.0	0.15	0.35
V91R2	125	91 ± 2	1.0	0.1 —2.0	3.0	0.1	0.3
V103R2	135	103 ± 2	0.8	0.2 —2.0	3.0	0.2	0.25
V110R4	170	110 ± 2	1.5	0.5 —4.0	6.0	0.5	0.95
V115R4	155	115 ± 2	0.8	0.15—4.0	6.0	0.15	0.3
V116R2	150	116 ± 2	0.6	0.12—2.0	3.0	0.15	0.3
V139R1.9	190	139 ± 4	0.5	0.3 —1.9	3.0	0.3	0.6
V143R1.9	255	143 ± 4	0.5	0.3 —1.9	3.0	0.3	0.6

Z SERIES VOLTAGE REGULATOR AND REFERENCE TUBES

Signalite Type	Breakdown Voltage vdc		Reference Meas. Voltage at		Current Range[2] for Regulator	Temp. Coeff.	Operating Current ma			Life Expectancy	Typical Variation at 250 Hours
	Max.	Typical	vdc	ma	ma	mv/°C	Max.[3]	Min. as Shunt Reg.	Min. in Parallel with a Capacitor	Hours	%
Z82R7	110	102	82 ± 1	2.0	0.25- 7.0	−2	10.0	0.25	0.45	30,000	<0.2
Z82R10	115	105	82 ± 1	2.0	0.3 -10.0	−2	14.0	0.3	0.7	30,000	<0.3
Z82R15	118	107	82 ± 1	2.0	0.5 -15	−2	17.0	0.5	0.9	30,000	<0.5
Z83R4	110	100	83 ± 1	1.5	0.25- 4.0	−2	6.0	0.25	0.4	30,000	<0.2
Z84R2	110	100	84 ± 1	1.0	0.15- 2.0	−2	3.0	0.15	0.35	30,000	<0.2
Z91R2	118	110	91 ± 1	1.0	0.1 - 2.0	−3.5	3.0	0.1	0.3	30,000	<0.3
Z91R4	120	111	91 ± 1	1.5	0.2 - 4.0	−3.5	6.0	0.15	0.35	30,000	<0.3
Z91R7	130	120	91 ± 1	1.5	0.25- 7.0	−3.5	10.0	0.25	0.4	30,000	<0.3
Z91R10	135	122	91 ± 1	1.5	0.25-10	−3.5	12.0	0.25	0.5	25,000	<0.3
Z100R12	150	140	100 ± 1	3.0	0.6 -12.0	−9	14.0	0.7	1.8	30,000	<0.6
Z103R2	130	115	103 ± 1	0.8	0.2 - 2.0	−4.5	3.0	0.2	0.25	20,000	<0.4
Z103R4	130	120	103 ± 1	1.0	0.2 - 4.0	−4.5	5.0	0.2	0.25	20,000	<0.6
Z110R4	165	155	110 ± 1	1.5	0.5 - 4.0	−9	6.0	0.5	0.95	30,000	<0.4
Z115R4	150	140	115 ± 1	0.8	0.15- 4.0	15	6.0	0.15	0.3	20,000	<0.3
Z115R6	155	145	115 ± 1	1.5	0.5 - 6.0	15	9.0	0.5	2.0	20,000	<0.3
Z116R2	145	138	116 ± 1	0.6	0.12- 2.0	15	3.0	0.15	0.3	20,000	<0.3
Z139R1.9	185	175	139 ± 3	0.5	0.3 - 1.9	−10	3.0	0.3	0.6	20,000	<0.35
Z143R1.9	220	195	143 ± 3	0.5	0.3 - 1.9	−10	3.0	0.3	0.6	20,000	<0.2

*Stacking capability for higher voltage regulation.

Notes:
[1]Limits for less than two volt variation.
[2]Limits for less than one volt variation.
[3]Maximum continuous current without permanent damage to tube.

Equilibrium condition reached within 2 minutes after ignition is common to all Voltage Regulators and Reference Tubes.

Red dot denotes anode or + terminal.
Leads are hot tin dipped.