

ULTRA STABLE CERTIFIED VOLTAGE REFERENCES

Certified for observed voltage stability during 1000 hours operation. Each unit serialized for positive identification.

Case Style — DO-7

TYPE	CERTIFIED STABILITY Per 1000 hrs. (ppm)	NOM. ZENER VOLTAGE $\pm \frac{1}{2}$ Volts	DYNAMIC RESISTANCE (Ω)	ZENER CURRENT (mA)	TEMP. COEFFICIENT (% per $^{\circ}$ C)	TEMP. RANGE ($^{\circ}$ C)	POWER DISSIPATION (mW)
1N3501	± 100	6.35	12	7.5	± 0.001	+25/+100	250
1N3502	± 100	6.35	12	7.5	± 0.0005	+25/+100	250
1N3503	± 50	6.35	12	7.5	± 0.001	+25/+100	250
1N3503A	± 50	6.35	12	7.5	± 0.0005	+25/+100	250
1N3504	± 20	6.35	12	7.5	± 0.001	+25/+100	250
1N3504A	± 20	6.35	12	7.5	± 0.0005	+25/+100	250
1N4890	± 50	6.35	10	7.5	± 0.001	+25/+100	250
1N4890A	± 50	6.35	10	7.5	± 0.001	-55/+100	250
1N4891	± 50	6.35	10	7.5	± 0.0005	+25/+100	250
1N4891A	± 50	6.35	10	7.5	± 0.0005	-55/+100	250
1N4892	± 20	6.35	10	7.5	± 0.001	+25/+100	250
1N4892A	± 20	6.35	10	7.5	± 0.001	-55/+100	—
1N4893	± 20	6.35	10	7.5	± 0.0005	+25/+100	—
1N4893A	± 20	6.35	10	7.5	± 0.0005	-55/+100	—
1N4894	± 10	6.35	10	7.5	± 0.001	+25/+100	—
1N4894A	± 10	6.35	10	7.5	± 0.001	-55/+100	—
1N4895	± 10	6.35	10	7.5	± 0.0005	+25/+100	—
1N4895A	± 10	6.35	10	7.5	± 0.0005	-55/+100	—
SV7401	± 20	6.35	12	7.5	± 0.001	+25/+100	—
SV7402	± 20	6.35	12	7.5	± 0.0005	+25/+100	—
SV7403	± 10	6.35	12	7.5	± 0.001	+25/+100	—
SV7404	± 10	6.35	12	7.5	± 0.0005	+25/+100	—
SV7405	± 5	6.35	12	7.5	± 0.001	+25/+100	250
SV7406	± 5	6.35	12	7.5	± 0.0005	+25/+100	250

INDUSTRIAL PRECISION REFERENCES

Precision references designed for use in industrial applications.
Case Style — DO-7

TYPE	NOM. ZENER VOLTAGE $\pm \frac{1}{2}$ Volts	DYNAMIC RESISTANCE (Ω)	ZENER CURRENT (mA)	TEMP. RANGE ($^{\circ}$ C)	POWER DISSIPATION (mW)
PR6105	6.2	15	7.5	+25/+100	250
PR6110	6.2	15	7.5	+25/+100	250
PR6120	6.2	15	7.5	+25/+100	250
PR6150	6.2	15	7.5	+25/+100	250
PR6205	6.2	15	7.5	+25/+100	250
PR6210	6.2	15	7.5	+25/+100	250
PR6220	6.2	15	7.5	+25/+100	250
PR6250	6.2	15	7.5	+25/+100	250
PR6405	6.2	15	7.5	+25/+100	250
PR6410	6.2	15	7.5	+25/+100	250
PR6420	6.2	15	7.5	+25/+100	250
PR6450	6.2	15	7.5	+25/+100	250
PR9110	9.0	20	7.5	+25/+100	250
PR9120	9.0	20	7.5	+25/+100	250
PR9150	9.0	20	7.5	+25/+100	250
PR9210	9.0	20	7.5	+25/+100	250
PR9220	9.0	20	7.5	+25/+100	250
PR9250	9.0	20	7.5	+25/+100	250
PR9410	9.0	20	7.5	+25/+100	250
PR9420	9.0	20	7.5	+25/+100	250
PR9450	9.0	20	7.5	+25/+100	250

Note: Temperature Coefficient:
All types listed have a temperature coefficient of $\pm 0.02\%/^{\circ}$ C.
When ordered with an "A" suffix the temperature coefficient is $.001\%/^{\circ}$ C.

GUARANTEED VOLTAGE REFERENCES

Case Style — DO-7

TYPE	CERTIFIED STABILITY Per 1000 hrs. (ppm)	NOM. ZENER VOLTAGE $\pm \frac{1}{2}$ Volts	DYNAMIC RESISTANCE (Ω)	ZENER CURRENT (mA)	TEMP. COEFFICIENT (% per $^{\circ}$ C)	TEMP. RANGE ($^{\circ}$ C)	POWER DISSIPATION (mW)
SVC650	± 500	6.2	15	7.5	± 0.001	+25/+100	500
SVC625	± 250	6.2	15	7.5	± 0.001	+25/+100	500
SVC950	± 500	9.0	20	7.5	± 0.001	+25/+100	500
SVC925	± 250	9.0	20	7.5	± 0.001	+25/+100	500
SVC1150	± 500	11.7	30	7.5	± 0.001	+25/+100	500
SVC1125	± 250	11.7	30	7.5	± 0.001	+25/+100	500

VOLTAGE REFERENCES

Case Style — 1G-80-02

TYPE	ZENER VOLTAGE V_z (volts)	TEMP. COEFFICIENT (% per °C)	DYNAMIC RESISTANCE (ohms)
SV8221	12.6	±.01	30
SV8223	12.6	±.005	30
SV8227	12.6	±.001	30
SV8228	12.6	±.0005	30
SV8231	18.9	±.01	45
SV8233	18.9	±.005	45
SV8237	18.9	±.001	45
SV8239	18.9	±.0005	45
SV8241	25.2	±.01	60
SV8243	25.2	±.005	60
SV8247	25.2	±.001	60
SV8249	25.2	±.0005	60

Notes: Zener test current: 7.5 MA;
 operating temperature range: -65 to +125°C.
 Standard V_z tolerance ±5%;
 for ±2%, add suffix A;
 for ±1% add suffix B

TYPE	ZENER VOLTAGE V_z (volts) MIN./MAX.	TEMP. COEFFICIENT (% per °C)	DYNAMIC RESISTANCE (ohms)
SV3170	6.7 7.4	±.02	10
1N4501	6.7 7.4	±0.2	10
1N3199	8 8.8	±.005	15
1N3200	8 8.8	±.003	15
1N3201	8 8.8	±.002	15
1N3202	8 8.8	±.001	15
SV3206*	16 17.6	±.002	30
SV3207*	16 17.6	±.001	30

Notes: Zener current: 10 MA;
 operating temperature range: -65 to +125°C.
 * Matched pair — low voltage assemblies

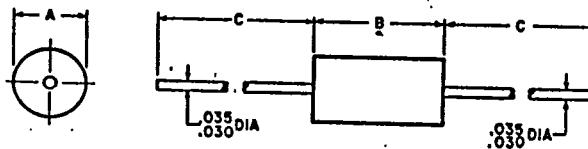
HIGH VOLTAGE ASSEMBLIES

Case Style — 1G-80

TYPE	MAX. PEAK REVERSE VOLTAGE (volts)	REVERSE CURRENT (µA) 25°C	REVERSE CURRENT (µA) 100°C	MAX. FORWARD VOLTAGE (volts)	MAX. AVERAGE FORWARD CURRENT (mA) 25°C	MAX. AVERAGE FORWARD CURRENT (mA) 100°C	CASE STYLE
SE-1N1730	1000	2.5	40	4	200	100	1G-80-04
SE-1N1731	1500	2.5	40	5	200	100	1G-80-04
SE-1N1732	2000	2.5	40	7	200	100	1G-80-05
SE-1N1733	3000	5	75	10	150	75	1G-80-05
SE-1N1734	5000	5	75	15	100	50	1G-80-06
SE-1N2382	4000	5	75	14	150	75	1G-80-07
SE-1N2383	6000	5	75	20	100	50	1G-80-07
SE-1N2384	8000	5	75	25	75	40	1G-80-07
SE-1N2385	10000	5	75	30	75	40	1G-80-09

Notes: Operating temperature range: -55 to +150°C

1G-80 OUTLINE



VARIATION (dash nr.)	Dimension A (inches)	Dimension B (inches)	Dimension C (inches)
1G-80-01	0.265/0.235	0.765/0.735	1.500 Min
1G-80-02	0.328/0.298	0.702/0.672	1.000 Min
1G-80-03	0.328/0.298	1.015/0.985	1.000 Min
1G-80-04	0.390/0.360	0.515/0.485	1.500 Min

MULTI-CURRENT RANGE REFERENCE DIODES

Case Style — DO-7

Temperature coefficient specified over entire I_z range

TYPE	ZENER VOLTAGE $\pm 5\%$ @ 7.5 mA, 25°C (VOLTS)	TEMP. COEFFICIENT (% per °C)	I_z RANGE (mA) MIN-MAX		MAX. DYNAMIC RESISTANCE OVER I_z RANGE @ 25°C		
					@ I_z MIN	@ I_z MID	@ I_z MAX
SVM61	6.2	± 0.01	2	15	50	15	12
SVM605	6.2	± 0.005	2	15	50	15	12
SVM6020	6.2	± 0.002	3	7.5	30	15	15
SVM6021	6.2	± 0.002	7.5	15	15	15	12
SVM6010	6.2	± 0.001	3	7.5	30	15	15
SVM6011	6.2	± 0.001	7.5	12	15	15	12
SVM81	8.4	± 0.01	2	15	75	20	15
SVM805	8.4	± 0.005	2	15	75	20	15
SVM8020	8.4	± 0.002	3	7.5	50	20	20
SVM8021	8.4	± 0.002	7.5	15	20	20	15
SVM8010	8.4	± 0.001	3	7.5	50	20	20
SVM8011	8.4	± 0.001	7.5	12	20	20	15
SVM91	9.0	± 0.01	2	15	75	20	15
SVM905	9.0	± 0.005	2	15	75	20	15
SVM9020	9.0	± 0.002	3	7.5	50	20	20
SVM9021	9.0	± 0.002	7.5	15	20	20	15
SVM9010	9.0	± 0.001	3	7.5	50	20	20
SVM9011	9.0	± 0.001	7.5	12	20	20	15
SVM111	11.7	± 0.01	2	12	100	30	24
SVM1105	11.7	± 0.005	3	12	75	30	24
SVM11020	11.7	± 0.002	3	7.5	75	30	30
SVM11021	11.7	± 0.002	7.5	12	30	30	24