

TUNING VARACTORS

HIGH VOLTAGE TUNING VARACTORS

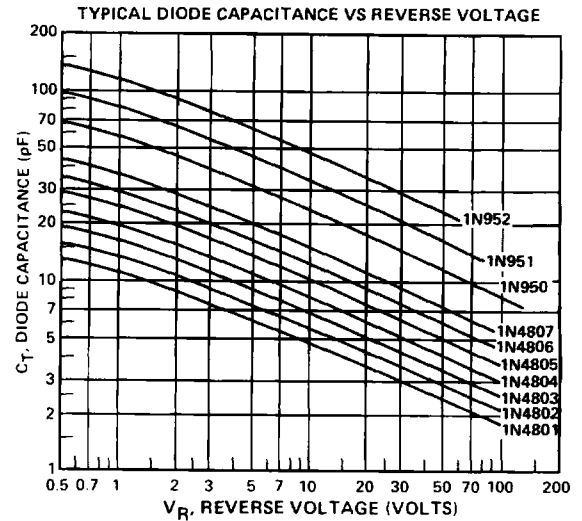
1N4801, A, B, C, D through 1N4807, A, B, C, D
1N950 through 1N952

KV4801, A, B, C, D through KV4807, A, B, C, D
KV950 through KV952

DO-14 Glass Package (other package styles available for KV series)

FEATURES

- High Breakdown Voltage (for applications where large RF voltages are present)
- High Q and High Tuning Ratio (KV types)
- Guaranteed Tuning Ratio and Temperature Coefficient
- Superior Reproducibility
- High Reliability (state-of-the-art passivation plus hermetic packaging)



ELECTRICAL SPECIFICATIONS

MODEL NUMBER	C _T DIODE CAPACITANCE (pF) VR=4 Vdc MIN*/NOM*/MAX**	TR TUNING RATIO f=1 MHz		Q VR=4 Vdc f=50 MHz MIN**	V _{WM} ** MAXIMUM WORKING VOLTAGE (Vdc)	V _{BR} IR=100μA (Vdc) MIN**	I _R (μA) VR=V _{WM} MAX**	T _{CC} DIODE CAPACITANCE TEMPERATURE COEFFICIENT (ppm/°C) MAX**	MAX. DEVICE DISSIPATION		OPERATING TEMPERATURE (°C) MAX**	STORAGE TEMPERATURE RANGE** (°C)
		C(0.1V)/C(4V) MIN*/MAX**	C(4V)/C(VRM) MIN*/MAX**						AT Ta=25°C (mW**)	DERATE ABOVE 25°C (mW**/°C)		
1N4801	5.44/6.80/8.16	2.40/2.56	3.51/3.84	15	100	110	.005	+250**	500	4	+150	-65 TO +150
1N4802	6.58/8.20/9.84	2.42/2.58	3.53/3.80	15*	100	110	.005	+250**	500	4	+150	-65 TO +150
1N4803	8/10/12	2.34/2.50	3.82/4.13	15	100	110	.005	+250**	500	4	+150	-65 TO +150
1N4804	9.6/12/14.4	2.35/2.49	3.86/4.13	15	100	110	.005	+250**	500	4	+150	-65 TO +150
1N4805	12/15/18	2.37/2.49	3.91/4.13	15	100	110	.005	+250**	500	4	+150	-65 TO +150
1N4806	14.4/18/21.6	2.36/2.48	3.94/4.13	15	90	99	.005	+250**	500	4	+150	-65 TO +150
1N4807	17.6/22/26.4	2.35/2.46	3.97/4.13	15	90	99	.005	+250**	500	4	+150	-65 TO +150
1N950	28/35/42	2.4 TYP	5.1 TYP	7	130	130	1.0	+250	400	4	+175	-65 TO +150
1N951	40/50/60	2.4 TYP	4.1 TYP	7	80	80	1.0	+250	400	4	+175	-65 TO +150
1N952	56/70/84	2.4 TYP	3.55 TYP	7	60	60	1.0	+250	400	4	+175	-65 TO +150

MODEL NUMBER	C _T DIODE CAPACITANCE (pF) VR=4 Vdc MIN*/NOM*/MAX**	TR TUNING RATIO f=1 MHz		Q VR=4 Vdc f=50 MHz MIN	V _{WM} MAXIMUM WORKING VOLTAGE (Vdc)	V _{BR} IR=100μA (Vdc) MIN	I _R (μA) VR=V _{WM} MAX	T _{CC} DIODE CAPACITANCE TEMPERATURE COEFFICIENT (ppm/°C) MAX	MAX. DEVICE DISSIPATION		OPERATING TEMPERATURE (°C) MAX	STORAGE TEMPERATURE RANGE (°C)
		C(0.1V)/C(4V) MIN*/MAX**	C(4V)/C(VRM) MIN*/MAX**						AT Ta=25°C (mW)	DERATE ABOVE 25°C (mW/°C)		
KV4801	5.44/6.80/8.16	2.40/2.56	3.51/3.84	125	100	110	.005	+250	500	4	+150	-65 TO +150
KV4802	6.58/8.20/9.84	2.42/2.58	3.53/3.89	100	100	110	.005	+250	500	4	+150	-65 TO +150
KV4803	8/10/12	2.34/2.50	3.82/4.13	100	100	110	.005	+250	500	4	+150	-65 TO +150
KV4804	9.6/12/14.4	2.35/2.49	3.86/4.13	100	100	110	.005	+250	500	4	+150	-65 TO +150
KV4805	12/15/18	2.37/2.49	3.91/4.13	100	100	110	.005	+250	500	4	+150	-65 TO +150
KV4806	14.4/18/21.6	2.36/2.48	3.94/4.13	100	90	99	.005	+250	500	4	+150	-65 TO +150
KV4807	17.6/22/26.4	2.35/2.46	3.97/4.13	100	90	99	.005	+250	500	4	+150	-65 TO +150
KV950	28/35/42	2.4 TYP	5.1 TYP	100	130	130	1.0	+250	400	4	+175	-65 TO +150
KV951	40/50/60	2.4 TYP	4.1 TYP	100	80	80	1.0	+250	400	4	+175	-65 TO +150
KV952	56/70/84	2.4 TYP	3.55 TYP	100	60	60	1.0	+250	400	4	+175	-65 TO +150

ADD SUFFIX "A" FOR ±10% C_T TOLERANCE, SUFFIX "B" FOR ±5% C_T TOLERANCE, SUFFIX "C" FOR ±2% C_T TOLERANCE, SUFFIX "D" FOR ±1% C_T TOLERANCE

**INDICATES JEDEC REGISTERED DATA