

TUNING VARACTORS

30-VOLT SILICON TUNING VARACTORS

ELECTRICAL SPECIFICATIONS

T_A = 25°C

MODEL NUMBER	TOTAL CAPACITANCE ¹ (AT -4V, 1 MHz) C _{t-4} (pF)	QUALITY FACTOR ² (AT -4V, 50 MHz) Q-4 (MIN)	CAPACITANCE RATIO ¹ (C _{t0} /C _{t30}) (MIN)
GC1500A(CHIP)	0.4(CHIP)	5000(CHIP)	4.2(CHIP)
GC1500B	0.6	4000	3.0
GC1500	0.8	3900	3.3
GC1501	1.0	3800	3.4
GC1502	1.2	3800	3.4
GC1503	1.5	3600	3.5
GC1504	1.8	3500	3.5
GC1505	2.2	3500	3.7
GC1506	2.7	3300	3.7
GC1507	3.3	3100	3.8
GC1508	3.9	2700	3.9
GC1509	4.7	2600	3.9
GC1510	5.6	2600	4.0
GC1511	6.8	2400	4.0
GC1512	8.2	2200	4.0
GC1513	10.0	2200	4.2

NOTES:

- These values include a package capacitance of .18 pF.
- Q is calculated from: $Q = \frac{1}{2\pi f R_s C_j}$ where f = 50 MHz and
R_s = Series resistance measured at 1 GHz using transmission loss techniques.
Capacitance is measured at 1 MHz.
- Standard case styles include : 00, 15, 30, 35, 36, 80, 85, 88 and 89. When ordering, specify the desired case style by adding its number as a suffix to the basic part number. Other case styles are available on request.

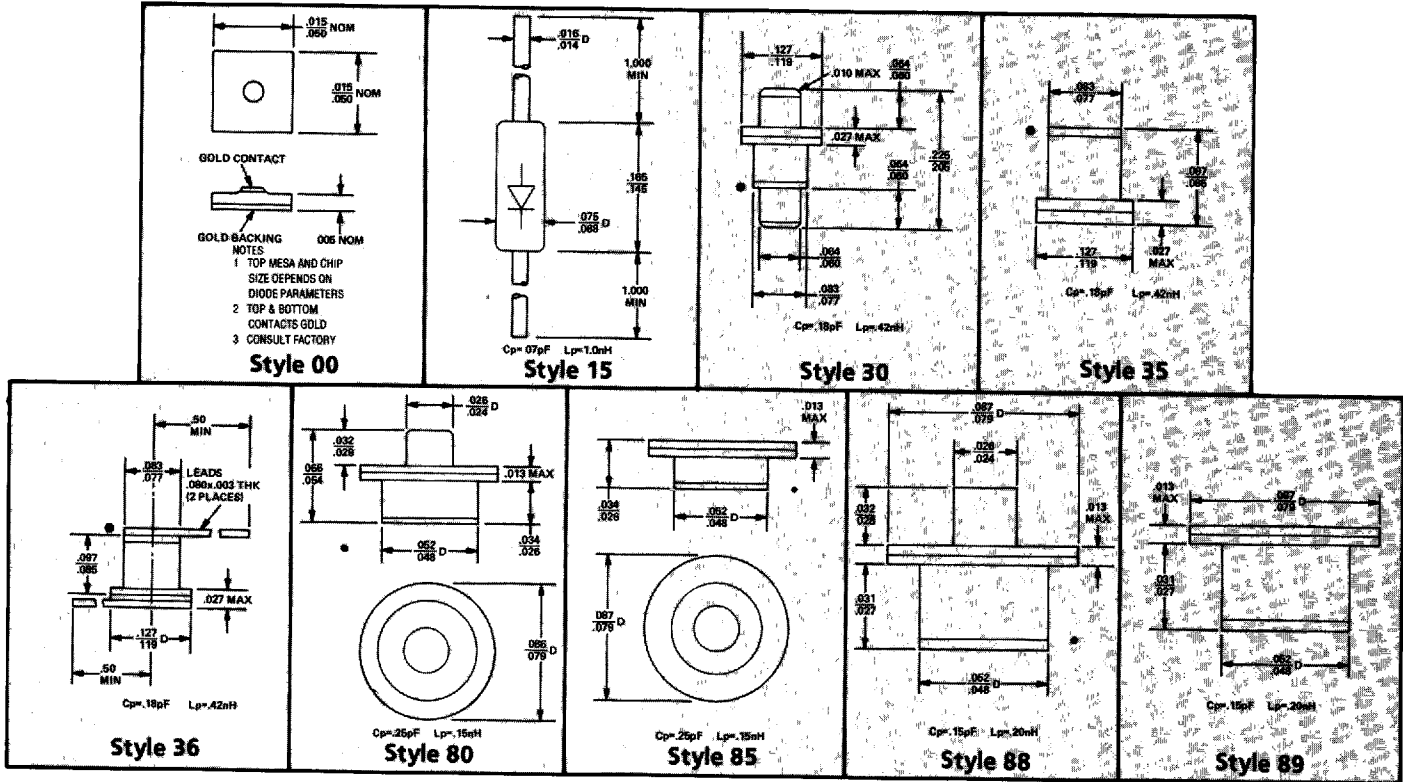
RATINGS

Minimum Voltage breakdown:	30 volts at 10 μA max
Maximum Leakage Current:	0.02 μA at 25 volts and 25°C 2.0 μA at 25 volts and 125°C
Capacitance-Temperature Coefficient:	300 ppm/°C at V _R = -4V
Operating Temperature:	-55°C to +150°C
Storage Temperature:	-65°C to +200°C

TUNING VARACTORS

30-VOLT SILICON TUNING VARACTORS

PACKAGE STYLES



(•) Heat sink end. Dimensions are in inches.

Other Package Styles Are Available Upon Request

The cathode is the heat sink end of each package. Reverse polarity is available at a slightly higher cost.

ENGINEERING NOTES: