

Varactor Diodes

V1620 -
V1650
V1652 -
V1666
V5007 -

V1620 to V1650

Type Number	Ct Diode Capacitance Vr = 4 Vdc, f = 1 MHz (pF)			Q, Figure of Merit Vr = 4 Vdc f = 50 MHz Min	TR, Tuning Ratio C2/C20 f = 1 MHz	
	Min	Nom	Max		Min	Max
V1620	6.1	6.8	7.5	300	2.0	3.2
V1622	7.4	8.2	9.0	300	2.0	3.2
V1624	9.0	10.0	11.0	300	2.0	3.2
V1626	10.8	12.0	13.2	300	2.0	3.2
V1628	13.5	15.0	16.5	250	2.0	3.2
V1630	16.2	18.0	19.8	250	2.0	3.2
V1632	18.0	20.0	22.0	250	2.0	3.2
V1634	19.8	22.0	24.2	250	2.0	3.2
V1636	24.3	27.0	29.7	200	2.0	3.2
V1638	29.7	33.0	36.3	200	2.0	3.2
V1640	35.1	39.0	42.9	200	2.0	3.2
V1642	42.3	47.0	51.7	200	2.0	3.2
V1644	50.4	56.0	61.6	150	2.0	3.2
V1646	61.2	68.0	74.8	150	2.0	3.2
V1648	73.8	82.0	90.2	150	2.0	3.2
V1650	90.0	100.0	110.0	150	2.0	3.2

V1652 to V1666

Type Number	Ct Diode Capacitance Vr = 4 Vdc, f = 1 MHz (pF)			Q, Figure of Merit Vr = 4 Vdc f = 20 MHz	Capacitance Ratio Typical		Reverse Voltage Ir = 10 uA
	Min	Nom	Max		C2/C20	C2/C15	
V1652	108	120	135	250	2.6		20
V1654	132	150	165	250	2.6		20
V1656	162	180	198	200	2.6		20
V1658	180	200	220	200	2.6		20
V1660	198	220	242	150	2.6		20
V1662	225	250	275	150		2.3	15
V1664	243	270	300	100		2.3	15
V1666	297	330	363	100		2.3	15

V5007 to V5100

Type Number	C Nom Diode Capacitance V = -4 Vdc f = 1 MHz (pF)	Min Q V = -4 Vdc f = 50 MHz	Tuning Ratio C2/C30 1 MHz	
			Min	Max
V5007	6.8	450	2.5	3.1
V5008	8.2	450	2.5	3.1
V5010	10.0	400	2.5	3.1
V5012	12.0	400	2.5	3.1
V5015	15.0	400	2.5	3.1
V5018	18.0	350	2.5	3.1
V5020	20.0	350	2.5	3.1
V5022	22.0	350	2.5	3.2
V5027	27.0	300	2.5	3.2
V5033	33.0	200	2.5	3.2
V5039	39.0	150	2.5	3.2
V5047	47.0	150	2.5	3.2
V5056	56.0	150	2.6	3.3
V5068	68.0	150	2.6	3.3
V5082	82.0	100	2.6	3.3
V5100	100.0	100	2.6	3.3

MAXIMUM RATINGS

Package Style
DC Power Dissipation @ Ta = 25 °C
Reverse Current @ 15 Vdc
@ 10 Vdc
Reverse Breakdown Voltage I = 10 uA
Reverse Leakage Current @ 25 Vdc
Operating Temperature Range
Junction Temperature
Storage Temperature Range

V1620 - V1650

DO-7
400 mW
0.1 uA
20 Vdc min
175 °C
- 65 to + 200 °C

V1652 - V1666

DO-7
400 mW
0.1 uA V1652-V1660
0.1 uA V1662-V1666
175 °C
- 65 to + 200 °C

V5007 - V5100

DO-7
400 mW
30 Vdc min
0.10 uA
- 65 to + 175 °C
- 65 to + 200 °C