

# Silicon Abrupt Varactors: General Purpose



Glass Axial Leaded

## MV1620 – MV1650

Model	Diode Capacitance $C_T$ pF			Quality Factor $Q$	Tuning Ratio $T_R$	
	MIN	TYP	MAX	MIN	MIN	TYP
MV1620	6.1	6.8	7.5	300	2.0	3.2
MV1622	7.4	8.2	9.0	300	2.0	3.2
MV1624	9.0	10.0	11.0	300	2.0	3.2
MV1626	10.8	12.0	13.2	300	2.0	3.2
MV1628	13.5	15.0	16.5	250	2.0	3.2
MV1630	16.2	18.0	19.8	250	2.0	3.2
MV1632	18.0	20.0	22.0	250	2.0	3.2
MV1634	19.8	22.0	24.2	250	2.0	3.2
MV1636	24.3	27.0	29.7	200	2.0	3.2
MV1638	29.7	33.0	36.3	200	2.0	3.2
MV1640	35.1	39.0	42.9	200	2.0	3.2
MV1642	42.3	47.0	51.7	200	2.0	3.2
MV1644	50.4	56.0	61.6	150	2.0	3.2
MV1646	61.2	68.0	74.8	150	2.0	3.2
MV1648	73.8	82.0	90.2	150	2.0	3.2
MV1650	90.0	100.0	110.0	150	2.0	3.2
<b>Test Conditions</b>	$V_R = 4 \text{ Vdc}, F = 1 \text{ MHz}$			@ 4 Vdc, F = 50 MHz	$C_T 2 \text{ V} / C_T 20\text{V}, 1 \text{ MHz}$	

Maximum Ratings	Parameters	Value	Rating
	DC Power Dissipation	@ $T_A = 25^\circ \text{ C}$	400 mW
	Min Reverse Breakdown Voltage	@ $I_r = 10 \mu\text{A}$	20 Vdc
	Max Reverse Current	@ 15 Vdc	0.1 $\mu\text{A}$ Max
	Operating Temperature		-65° to +150° C
	Storage Temperature		-65° to +200° C
	Junction Temperature		175° C

## MV1652 – MV1666

Model	Diode Capacitance $C_T$ pF			Quality Factor $Q$	Capacitance Ratio		Reverse Voltage Vdc
	MIN	TYP	MAX	MIN	TYP	TYP	MIN
MV1652	108	120	135	250	2.6		20
MV1654	132	150	165	250	2.6		20
MV1656	162	180	198	200	2.6		20
MV1658	180	200	220	200	2.6		20
MV1660	198	220	242	200	2.6		20
MV1662	225	250	275	150		2.3	15
MV1664	243	270	300	100		2.3	15
MV1666	297	330	363	100		2.3	15
<b>Test Conditions</b>	$V_R = 4 \text{ Vdc}, F = 1 \text{ MHz}$			$V_R = 4 \text{ Vdc}, F = 20 \text{ MHz}$	$C_T 2 \text{ V} / C_T 20 \text{ V}$	$C_T 2 \text{ V} / C_T 15 \text{ V}$	@ 10 $\mu\text{A}$

Maximum Ratings	Parameters	Value	Rating
	DC Power Dissipation	@ $T_A = 25^\circ \text{ C}$	475 mW
	Max Reverse Current	@ 15 Vdc	0.1 $\mu\text{A}$ (MV1652-MV1660)
	Max Reverse Current	@ 10 Vdc	0.1 $\mu\text{A}$ (MV1662-MV1666)
	Operating Temperature		-65° to +150° C
	Storage Temperature		-65° to +200° C
	Junction Temperature		175° C