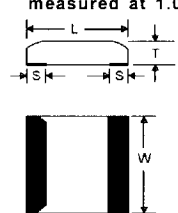


VARACTOR TUNING DIODES

JEDEC Part Number	Product Highlights	Capacitance at $V_R=4.0$ V and $f=1.0$ MHz	Figure of Merit Q at 4.0 V and 50 MHz		Capacitance Ratio from V_L Volts to V_{RR} Volts		Maximum Working Voltage	V_L	Minimum Reverse Breakdown at $I_R=10$ μ A	Maximum Ratings
		(pF)	Min	Typ	Min	Typ	V_{RW} (Volts)	(Volts)	V_{RR} (Volts)	
VVC733 VVC736	Low Voltage General Purpose	15 18	30 25	35 30	1.8 1.8	2.00 2.00	25	4.0	30	Package Style DO-7 DC Power Dissipation @ $T_A=25^\circ\text{C}$ 400 mW Reverse Current @ $T_A=25^\circ\text{C}$ and $V_R = V_{RW}$ Volts 0.2 μ A Operating Temp. Range $-65^\circ\text{C}/+175^\circ\text{C}$ Storage Temp. Range $-65^\circ\text{C}/+200^\circ\text{C}$ Capacitance Tolerance $\pm 10\%$
VVC741 VVC746		22 27	25 25	30 30	1.8 1.8	2.10 2.10				
VVC747 VVC751		33 39	20 20	25 25	1.9 1.9	2.12 2.12				
VVC754 VVC758		47 56	15 15	20 20	1.9 1.9	2.15 2.15				
VVC759 VVC763		68 82	15 10	20 15	2.0 2.0	2.18 2.18				
VVC766		100	10	15	2.0	2.18				

HYPERABRUPT TUNING DIODES

ISI Part Number	Product Highlights	Capacitance at $V_R=2.0$ V and $f=1.0$ MHz	Tuning Ratio from 2.0 Volts to 10.0 Volts	Figure of Merit Q at 2.0 V and 1.0 MHz	Maximum Working Voltage	Minimum Reverse Breakdown at $I_R=10$ μ A	Pkg	Maximum Ratings				
		(pF)	Minimum	Minimum	V_{RW} (Volts)	V_{RR} (Volts)						
MV1401 MV1402	Hyper- Abrupt Tuning Diode	550 360	14:1 10:1	200	10.0	12.0	DO-14 DO-14	Package Style DO-7 DO-14 DC Power Dissipation @ $T_A=25^\circ\text{C}$ 400 mW Reverse Current @ $T_A=25^\circ\text{C}$ and $V_R = 10.0$ Volts 0.2 μ A Operating Temp. Range $-65^\circ\text{C}/+175^\circ\text{C}$ Storage Temp. Range $-65^\circ\text{C}/+200^\circ\text{C}$ Capacitance Tolerance Standard Device $\pm 20\%$ Suffix A $\pm 10\%$ Suffix B $\pm 5\%$ CT and TR for MV1401 measured at 1.0 Volts				
MV1403 MV1404		175 120	10:1 10:1				DO-7 DO-7					
MV1405 MV1406		250 100	10:1 10:1				DO-7 DO-7					
MV1407 MV1408		68 47	10:1 10:1				DO-7 DO-7					
MV1409 MV1410		33 22	10:1 10:1				DO-7 DO-7					
MV1411 MV1412		15 10	10:1 7.5:1				DO-7 DO-7					
1M1401 1M1402		Surface Mount Hyper- Abrupt Tuning Diode	550 360				14:1 10:1		200	10.0	12.0	1M
1M1403 1M1404			175 120				10:1 10:1					
1M1405 1M1406	250 100		10:1 10:1									
1M1407 1M1408	68 47		10:1 10:1									
1M1409 1M1410	33 22		10:1 10:1									
1M1411 1M1412	15 10		10:1 7.5:1									



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
L	3.15	3.43	0.124	0.135
W	2.41	2.62	0.095	0.103
S	0.69	0.84	0.027	0.033
T	0.91	1.17	0.036	0.046

Case 1M