

Commercial Diodes: MSV-1400 Series

Abrupt Varactors

Single and Common Cathode

Description

The **MicroMetrics** abrupt tuning varactors provide extremely high Q and low series resistance available in a 30 volt silicon diode. These devices are available in single junction, common anode and common cathode configurations. Consult factory for availability.

Features

- Available in tape and reel
- Small and high volume commercial applications
- High Q
- Wide Selection of capacitance ranges

Packaging

- SOT 23, SOD 323



Electrical Characteristics

C _t @ 4 V (pF)		C _{t0} /C _{t30}	R _s @ 50 MHz (Ω)		Q @ 4 V 50 MHz	Part Number ¹
MIN	MAX	MIN	MAX	MIN		
1.62	1.98	4.1	0.60	2900	MSV1400-08-001	
1.62	1.98	4.1	0.60	2900	MSV1400-108-004	
1.98	2.42	4.1	0.50	2800	MSV1400-09-001	
1.98	2.42	4.1	0.50	2800	MSV1400-109-004	
2.43	2.97	4.2	0.45	2600	MSV1400-10-001	
2.43	2.97	4.2	0.45	2600	MSV1400-110-004	
2.97	3.63	4.2	0.40	2500	MSV1400-11-001	
2.97	3.63	4.2	0.40	2500	MSV1400-111-004	
3.51	4.29	4.2	0.35	2400	MSV1400-13-001	
3.51	4.29	4.2	0.35	2400	MSV1400-113-004	
4.23	5.17	4.2	0.30	2200	MSV1400-14-001	
4.23	5.17	4.2	0.30	2200	MSV1400-114-004	
5.04	6.16	4.3	0.27	2100	MSV1400-15-001	
5.04	6.16	4.3	0.27	2100	MSV1400-115-004	
6.12	7.48	4.3	0.24	2000	MSV1400-16-001	
6.12	7.48	4.3	0.24	2000	MSV1400-116-004	
7.38	9.02	4.3	0.22	1800	MSV1400-17-001	
7.38	9.02	4.3	0.22	1800	MSV1400-117-004	
9.00	11.0	4.4	0.20	1600	MSV1400-19-001	
10.8	13.2	4.4	0.18	1500	MSV1400-20-001	
13.5	16.5	4.4	0.18	1200	MSV1400-21-001	
16.2	19.8	4.4	0.18	1000	MSV1400-22-001	

1. 3 digit part number suffix indicates configuration. Refer to case styles.

Reverse Breakdown Voltage, V_{BR} (10 μA): 30 V MIN

Reverse Leakage Current, I_R (24 V): 50 nA MAX

