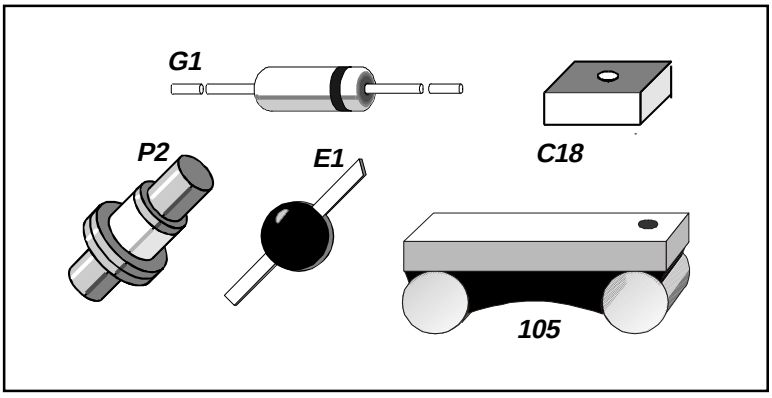
Abrupt Tuning Varactor Diodes • 30 VOLT SERIES

FEATURES

- High Q
- Low Leakage
- ±10% Standard Tolerance
- Glassivated for High Reliability



ENVIRONMENTAL RATINGS (MAXIMUM)	
Operating Temperature	-65°C to +175°C
Storage Temperature	-65°C to +200°C
Soldering Temperature	230°C for 5 seconds

Electrical Specifications @ 25° C

PART NUMBER	CASE STYLE	CT4 (pF)	CT0 / CT30 Typical	Min Q At 50 MHz	Typ Freq Range (GHz)
MP 6301	C17	0.4	5.0	5000	10 - 12
MP 6302	P2	0.6	2.9	5000	10 - 12
MP 6303	G1	0.5	3.6	5000	10 - 12
MP 6304	E1	0.5	3.6	5000	10 - 12
MP 6305	C17	0.8	5.0	4800	8 - 10
MP 6306	P2	1.0	3.6	4800	8 - 10
MP 6307	G1	0.9	4.2	4800	8 - 10
MP 6308	E1	0.9	4.2	4800	8 - 10
MP 6309	C17	1.3	5.0	4400	6 - 8
MP 6310	P2	1.5	4.0	4400	6 - 8
MP 6311	G1	1.4	4.4	4400	6 - 8
MP 6312	E1	1.4	4.4	4400	6 - 8
MP 6313	C17	2.0	5.0	4000	5 - 7
MP 6314	P2	2.2	4.2	4000	5 - 7
MP 6315	G1	2.1	4.6	4000	5 - 7
MP 6316	E1	2.1	4.6	4000	5 - 7
MP 6317	C18	3.1	5.0	3600	4 - 6
MP 6318	P2	3.3	4.4	3600	4 - 6
MP 6319	G1	3.2	4.7	3600	4 - 6
MP 6420	E1	3.2	4.7	3600	4 - 6
MP 6321	C18	4.5	5.0	3200	3 - 5
MP 6322	P2	4.7	4.6	3200	3 - 5
MP 6323	G1	4.6	4.8	3200	3 - 5
MP 6324	E1	4.6	4.8	3200	3 - 5
MP 6325	C18	6.6	5.0	2800	2 - 4
MP 6326	P2	6.8	4.7	2800	2 - 4
MP 6327	G1	6.7	4.9	2800	2 - 4
MP 6328	E1	6.7	4.9	2800	2 - 4
MP 6329	C18	9.8	5.0	2400	1 - 2
MP 6330	P2	10.0	4.8	2400	1 - 2
MP 6331	G1	9.9	4.9	2400	1 - 2
MP 6332	E1	9.9	4.9	2400	1 - 2

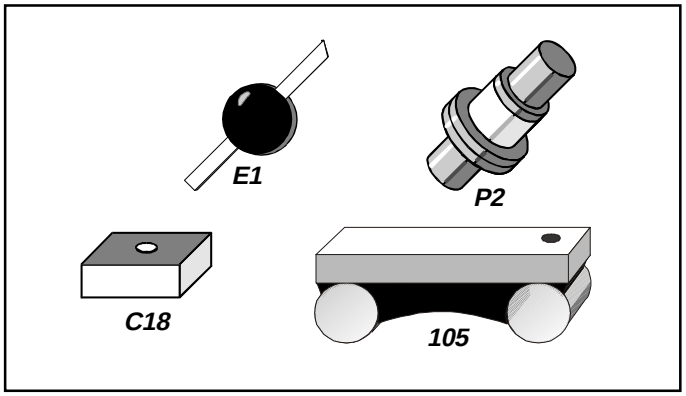
Hyperabrupt Tuning Varactor Diodes

FEATURES

- Broad Tuning Range
- High Frequency Operation
- ±10% Standard Tolerance
- Glassivated For High Reliability

ENVIRONMENTAL RATINGS
(MAXIMUM)

Operating Temperature ..... -65°C to +175°C
Storage Temperature ..... -65°C to +200°C
Soldering Temperature ..... 230°C for 5 seconds



Electrical Specifications @ +25° C • 22 VOLT SILICON SERIES

PART NUMBER	CASE STYLE	CT0 (pF) Typical	CT4 (pF)		CT20 (pF)		Min Q At 50 MHz See Note 1
			MIN	MAX	MIN	MAX	
MP 6501	C17	2.0	0.70	0.90	0.13	0.25	500
MP 6502	P2	2.2	0.90	1.10	0.35	0.45	500
MP 6503	M2	2.1	0.80	1.00	0.25	0.35	500
MP 6504	E1	2.1	0.80	1.00	0.25	0.35	500
MP 6505	S1	2.2	0.90	1.10	0.35	0.45	500
MP 6506	C17	3.2	1.15	1.45	0.25	0.35	500
MP 6507	P2	3.4	1.35	1.65	0.45	0.55	500
MP 6508	M2	3.3	1.25	1.55	0.35	0.45	500
MP 6509	E1	3.3	1.25	1.55	0.35	0.45	500
MP 6510	S1	3.4	1.35	1.65	0.45	0.55	500
MP 6511	C17	4.7	1.60	2.00	0.35	0.50	400
MP 6512	P2	4.9	1.80	2.20	0.55	0.70	400
MP 6513	M2	4.8	1.70	2.10	0.45	0.60	400
MP 6514	E1	4.8	1.70	2.10	0.45	0.60	400
MP 6515	S1	4.9	1.80	2.20	0.55	0.70	400
MP 6516	C17	7.0	2.50	3.10	0.50	0.70	400
MP 6517	P2	7.2	2.70	3.30	0.70	0.90	400
MP 6518	M2	7.1	2.60	3.20	0.60	0.80	400
MP 6519	E1	7.1	2.60	3.20	0.60	0.80	400
MP 6520	S1	7.2	2.70	3.30	0.70	0.90	400
MP 6521	C18	13.8	4.30	5.30	0.80	1.10	400
MP 6522	P2	14.0	4.50	5.50	1.00	1.30	400
MP 6523	M2	13.9	4.40	5.40	0.90	1.20	400
MP 6524	E1	13.9	4.40	5.40	0.90	1.20	400
MP 6525	S1	14.0	4.50	5.50	1.00	1.30	400
Test Conditions		**V_R = 0V**	**V_R = -4V**		**V_R = -20V**		**V_R = -4V, 50MHz**