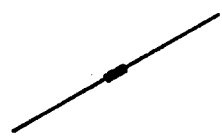


General Purpose Abrupt Junction Tuning Diodes

Voltage variable capacitance diodes for electronic tuning and control of RF circuits through UHF frequencies. Utilized for television tuning and AFC circuits.



CASE 51-02
(DO-204AA)
DO-7

- High Q
- Capacitance TOL
10% — No Suffix
5% — Suffix A
- Premium 30 V
- Very High Q
- Guaranteed High CR
- Capacitance TOL
10% — A, 5% — B, 2% — C

Maximum Working Voltage

60 Volts

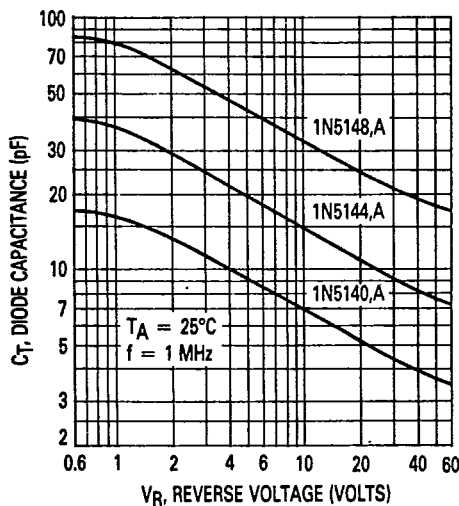
30 Volts

	60 Volts			30 Volts		
	Cap Ratio C4/C60 Min	Q @ 4 V 50 MHz Min	Device Type	Cap Ratio C2/C30 Min	Q @ 4 V 50 MHz Min	Device Type
6.8	2.7	350	1N5139,A	2.7	600	1N5461A
8.2				2.8	600	1N5462A
10	2.8	300	1N5140,A	2.8	550	1N5463A
12	2.8	300	1N5141,A	2.8	550	1N5464A
15	2.8	250	1N5142,A	2.8	550	1N5465A
18	2.8	250	1N5143,A	2.9	500	1N5466A
20				2.9	500	1N5467A
22	3.2	200	1N5144,A	2.9	500	1N5468A
27	3.2	200	1N5145,A	2.9	500	1N5469A
33	3.2	200	1N5146,A	2.9	500	1N5470A
39	3.2	200	1N5147,A	2.9	450	1N5471A
47	3.2	200	1N5148,A	2.9	400	1N5472A
56				2.9	300	1N5473A
68				2.9	250	1N5474A
82				2.9	225	1N5475A
100				2.9	200	1N5476A

C_T
Nominal Capacitance
pF
 $\pm 10\%$
@
 $V_R = 4 V$
 $f = 1 MHz$

TYPICAL CHARACTERISTICS

Diode Capacitance versus Reverse Voltage



<ul style="list-style-type: none"> • High Q • Controlled CR • Capacitance TOL 10% - A, 5% - B, 2% - C 			<ul style="list-style-type: none"> • General-Purpose 			
Maximum Working Voltage						
30 Volts			20 Volts			
Cap Ratio C2/C30 Min	Q @ 4 V 50 MHz Min	Device Type	Cap Ratio C2/C20 Min	Q @ 4 V 50 MHz Min	Device Type	C _T Nom pF
2.5	450	1N5441A,B	2	300	MV1620	6.8
2.5	450	1N5442A,B	2	300	MV1622	8.2
2.6	400	1N5443A,B	2	300	MV1624	10
2.6	400	1N5444A,B	2	300	MV1626	12
2.6	450	1N5445A,B	2	250	MV1628	15
2.6	350	1N5446A,B	2	250	MV1630	18
2.6	350	1N5447A,B	2	250	MV1632	20
2.6	350	1N5448A,B	2	250	MV1634	22
2.6	350	1N5449A,B	2	200	MV1636	27
2.6	350	1N5450A,B	2	200	MV1638	33
2.6	300	1N5451A,B	2	200	MV1640	39
2.6	250	1N5452A,B	2	200	MV1642	47
2.6	200	1N5453A,B	2	150	MV1644	56
2.7	175	1N5454A,B	2	150	MV1646	68
2.7	175	1N5455A,B	2	150	MV1648	82
2.7	175	1N5456A,B	2	150	MV1650	100

TYPICAL CHARACTERISTICS
Diode Capacitance versus Reverse Voltage

