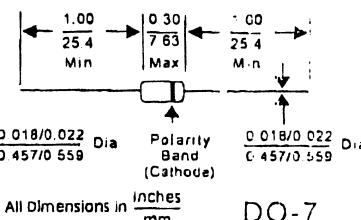


VARACTOR TUNING DIODES

JEDEC Part Number	Product Highlights	Capacitance at VR=4.0 V and f=1.0 MHz	Figure of Merit at 4.0 V & 50 MHz	Capacitance Ratio 2.0 V to V _{SW} V		Maximum Working Voltage	Minimum Reverse Breakdown at I _S =10 μ A	Maximum Ratings
		(pF)	Minimum	Min	Max	V _{SW} (Volts)	V _{BR} (Volts)	
1N5439	High Q	3.3	450	2.3	3.1	30	30	Reverse Current @ T _A =25°C and V _R = 25.0 volts 20 nA
1N5440		4.7	450	2.4	3.1			
1N5441		6.8	450	2.5	3.1			Reverse Current @ T _A =150°C and V _R = 25.0 volts 20 μ A
1N5442		8.2	450	2.5	3.1			
1N5443		10.0	400	2.6	3.1			Package Style DO-7 DC Power Dissipation @ T _A =25°C 400 mW Operating Temp. Range -55°C/+150°C Storage Temp. Range -55°C/+150°C Capacitance Standard Standard Device $\pm$ 20 % Suffix A $\pm$ 10 % Suffix B $\pm$ 5 % Suffix C $\pm$ 2 %
1N5444		12.0	400	2.6	3.1			
1N5445		15.0	400	2.6	3.1			
1N5446		18.0	350	2.6	3.1			
1N5447		20.0	350	2.6	3.1			
1N5448		22.0	350	2.6	3.2			
1N5449	General Purpose	27.0	350	2.6	3.2	30	30	Reverse Current @ T _A =25°C and V _R = V _{SW} Volts 10 μ A Reverse Current @ T _A =150°C and V _R = V _{SW} Volts 50 μ A
1N5450		33.0	350	2.6	3.2			
1N5451		39.0	300	2.6	3.2			
1N5452		47.0	250	2.6	3.2			
1N5453		56.0	200	2.6	3.3			
1N5454	Low Q Low Voltage	68.0	175	2.7	3.3	130	130	Package Style DO-7 * Package Style DO-14 DC Power Dissipation @ T _A =25°C 400 mW Reverse Current @ T _A =25°C and V _R = 55 volts 5 nA Reverse Current @ T _A =150°C and V _R = 55 volts 5 μ A Temp. Coefficient of Capacitance at VR=4.0 Vdc and T _A =-40/+85°C 0.03 %/°C Operating Temp. Range -65°C/+150°C Storage Temp. Range -65°C/+150°C Capacitance Tolerance Standard Device $\pm$ 20 % Suffix A $\pm$ 10 % Suffix B $\pm$ 5 % Suffix C $\pm$ 2 % Suffix D $\pm$ 1 %
1N5455		82.0	175	2.7	3.3			
1N5456		100.0	175	2.7	3.3			
1N5457		120.0	150	2.7	3.3			
1N950		28	7	2.4	2.4	80	100	
1N951	General Purpose	40				60	75	
1N952		56				25	30	
1N953		80				25	30	
1N954		28				25	30	
1N955	General Purpose	40				25	30	
1N956		56				25	30	



JEDEC Part Number	Product Highlights	Capacitance at VR=4.0 V and f=1.0 MHz	Figure of Merit at 4.0 V & 50 MHz	Capacitance Ratio		Maximum Working Voltage V _{SW} (V)	Minimum Reverse Breakdown at I _S =10 μ A V _{BR} (V)	Maximum Ratings		
		(pF)	Minimum	Min	Max				V _{SW} TO 4.0V	Min
1N4801B	High Voltage	6.8	15	2.40	2.56	0.260	0.285	100	110	Package Style DO-7 * Package Style DO-14 DC Power Dissipation @ T _A =25°C 400 mW Reverse Current @ T _A =25°C and V _R = 55 volts 5 nA Reverse Current @ T _A =150°C and V _R = 55 volts 5 μ A Temp. Coefficient of Capacitance at VR=4.0 Vdc and T _A =-40/+85°C 0.03 %/°C Operating Temp. Range -65°C/+150°C Storage Temp. Range -65°C/+150°C Capacitance Tolerance Standard Device $\pm$ 20 % Suffix A $\pm$ 10 % Suffix B $\pm$ 5 % Suffix C $\pm$ 2 % Suffix D $\pm$ 1 %
1N4802B		8.2		2.42	2.58	0.263	0.283	100	110	
1N4803B		10.0		2.34	2.50	0.242	0.262	100	110	
1N4804B		12.0		2.35	2.49	0.242	0.259	100	110	
1N4805B		15.0		2.37	2.49	0.242	0.256	100	110	
1N4806B	Low Leakage	18.0	15	2.36	2.48	0.242	0.254	90	99	
1N4807B		22.0		2.35	2.46	0.241	0.252	90	99	
1N4808B		27.0		2.35	2.46	0.276	0.285	65	72	
1N4809B		33.0		2.35	2.46	0.287	0.295	60	66	
1N4810B		39.0		2.34	2.44	0.300	0.306	55	61	
1N4811B	Low Leakage	47.0	15	2.33	2.43	0.313	0.320	50	55	
1N4812B		56.0		2.32	2.42	0.348	0.354	40	44	
1N4813B		68.0		2.30	2.40	0.398	0.404	30	33	
1N4814B		82.0		2.26	2.36	0.477	0.483	20	22	
1N4815B		100.0		2.24	2.33	0.478	0.484	20	22	
1N4786	Low Voltage	6.8	15	2.40	2.56	0.462	0.482	25	28	
1N4787		8.2		2.42	2.58	0.455	0.473	25	28	
1N4788		10.0		2.34	2.50	0.443	0.461	25	28	
1N4789		12.0		2.35	2.49	0.441	0.457	25	28	
1N4790		15.0		2.37	2.49	0.438	0.448	25	28	
1N4791	Low Leakage	18.0	15	2.36	2.48	0.487	0.497	20	22	
1N4792		22.0		2.35	2.46	0.487	0.497	20	22	
1N4793		27.0		2.35	2.46	0.486	0.496	20	22	
1N4794		33.0		2.35	2.46	0.485	0.495	20	22	
1N4795		39.0		2.34	2.44	0.483	0.494	20	22	
1N4796	Low Leakage	47.0	15	2.33	2.43	0.483	0.492	20	22	
1N4797		56.0		2.32	2.42	0.551	0.561	15	17	
1N4798		68.0		2.30	2.40	0.551	0.561	15	17	
1N4799		82.0		2.26	2.36	0.549	0.558	15	17	
1N4800		100.0		2.24	2.33	0.547	0.553	15	17	

0.100
25.4
Min

0.330
8.38
Max

0.018/0.022 Dia
0.457/0.559

0.018/0.022 Dia
0.457/0.559

0.004
0.102
Dia

Polarity Band (Cathode)

All Dimensions in $\frac{\text{inch}}{\text{mm}}$

DO-7

