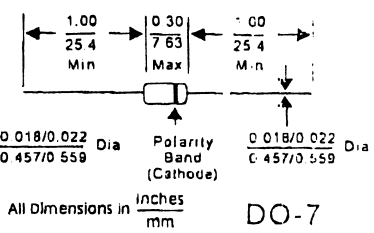


VARACTOR TUNING DIODES

JEDEC Part Number	Product Highlights	Capacitance at VR=4.0 V and f=1.0 MHz	Figure of Merit at 4.0 V and 50 MHz	Capacitance Ratio 2.0 V to V <sub>sw</sub> V		Maximum Working Voltage	Minimum Reverse Breakdown at I <sub>s</sub> =10 uA	Maximum Ratings
		(pF)	Minimum	Min	Max	V <sub>sw</sub> (Volts)	V <sub>br</sub> (Volts)	
1N5439	High Q	3.3	450	2.3	3.1	30	30	Reverse Current @ T <sub>a</sub> =25°C and V <sub>a</sub> =25.0 volts 20 nA Reverse Current @ T <sub>a</sub> =150°C and V <sub>a</sub> =25.0 volts 20 uA Package Style DO-7 DC Power Dissipation @ T <sub>a</sub> =25°C 400 mW Operating Temp. Range -55°C/+150°C Storage Temp. Range -65°C/+150°C Capacitance Standard Standard Device ±20% Suffix A ±10% Suffix B ±5% Suffix C ±2%
1N5440		4.7	450	2.4	3.1			
1N5441		6.8	450	2.5	3.1			
1N5442		8.2	450	2.5	3.1			
1N5443		10.0	400	2.6	3.1			
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	Low Voltage	27.0	350	2.6	3.2	30	30	Reverse Current @ T <sub>a</sub> =25°C and V <sub>a</sub> =25.0 volts 20 nA Reverse Current @ T <sub>a</sub> =150°C and V <sub>a</sub> =25.0 volts 20 uA Package Style DO-7 DC Power Dissipation @ T <sub>a</sub> =25°C 400 mW Operating Temp. Range -55°C/+150°C Storage Temp. Range -65°C/+150°C Capacitance Standard Standard Device ±20% Suffix A ±10% Suffix B ±5% Suffix C ±2%
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	General Purpose	68.0	175	2.7	3.3	30	30	Reverse Current @ T <sub>a</sub> =25°C and V <sub>a</sub> =25.0 volts 20 nA Reverse Current @ T <sub>a</sub> =150°C and V <sub>a</sub> =25.0 volts 20 uA Package Style DO-7 DC Power Dissipation @ T <sub>a</sub> =25°C 400 mW Operating Temp. Range -55°C/+150°C Storage Temp. Range -65°C/+150°C Capacitance Standard Standard Device ±20% Suffix A ±10% Suffix B ±5% Suffix C ±2%
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		Low Q Low Voltage	28	7	2.4			
1N951	40							
1N952	56							
1N953	80							
1N954	General Purpose	28	7	2.4	3.3	25	30	Reverse Current @ T <sub>a</sub> =25°C and V <sub>a</sub> =V <sub>sw</sub> Volts 10 uA Reverse Current @ T <sub>a</sub> =150°C and V <sub>a</sub> =V <sub>sw</sub> Volts 50 uA
1N955		40						
1N956		56						



JEDEC Part Number	Product Highlights	Capacitance at VR=4.0 V and f=1.0 MHz	Figure of Merit at 4.0 V and 50 MHz	Capacitance Ratio 0.1V to 4.0V		Maximum Working Voltage	Minimum Reverse Breakdown at I <sub>s</sub> =10 uA	Maximum Ratings				
		(pF)	Minimum	Min	Max				V <sub>sw</sub> (V)	V <sub>br</sub> (V)		
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 <sub>a</sub> =25°C 400 mW Reverse Current @ T <sub>a</sub> =25°C and V <sub>a</sub> =55 volts 5 nA Reverse Current @ T <sub>a</sub> =150°C and V <sub>a</sub> =55 volts 5 uA Temp. Coefficient of Capacitance at VR=4.0 Vdc and T <sub>a</sub> =-40/+85°C 0.03 %/°C Operating Temp. Range -65°C/+150°C Storage Temp. Range -65°C/+150°C Capacitance Tolerance Standard Device ±20% Suffix A ±10% Suffix B ±5% Suffix C ±2% Suffix D ±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		18.0		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	Package Style DO-7 * Package Style DO-14 DC Power Dissipation @ T <sub>a</sub> =25°C 400 mW Reverse Current @ T <sub>a</sub> =25°C and V <sub>a</sub> =55 volts 5 nA Reverse Current @ T <sub>a</sub> =150°C and V <sub>a</sub> =55 volts 5 uA Temp. Coefficient of Capacitance at VR=4.0 Vdc and T <sub>a</sub> =-40/+85°C 0.03 %/°C Operating Temp. Range -65°C/+150°C Storage Temp. Range -65°C/+150°C Capacitance Tolerance Standard Device ±20% Suffix A ±10% Suffix B ±5% Suffix C ±2% Suffix D ±1%		
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	General Purpose	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			

