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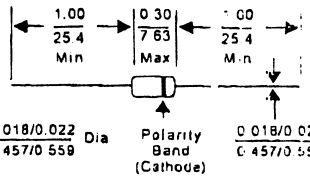
VARACTOR TUNING DIODES

JEDEC Part Number	Product Highlights	Capacitance at VR=4.0 V and f=1.0 MHz (pF)	Figure of Merit at 4.0 V and 50 MHz Minimum	Capacitance Ratio 2.0 V to V_{RR} V Min	Max	Maximum Working Voltage V_{RR} (Volts)	Minimum Reverse Breakdown at I_R=10 uA V_{BR} (Volts)
1N5439		3.3	450	2.3	3.1		
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	High Q	15.0	400	2.6	3.1		
1N5446		18.0	350	2.6	3.1		
1N5447		20.0	350	2.6	3.1		
1N5448	Low Voltage	22.0	350	2.6	3.2	30	30
1N5449		27.0	350	2.6	3.2		
1N5450		33.0	350	2.6	3.2		
1N5451	General	39.0	300	2.6	3.2		
1N5452	Purpose	47.0	250	2.6	3.2		
1N5453		56.0	200	2.6	3.3		
1N5454		68.0	175	2.7	3.3		
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				130	130
1N951	Low Q	40				80	100
1N952	Low Voltage	56				60	75
1N953		80	7	2.4		25	30
1N954	General	28				25	30
1N955	Purpose	40				25	30
1N956		56				25	30

Maximum Ratings

Reverse Current @ T_A=25°C and V_R = 25.0 volts — 20 nA
Reverse Current @ T_A=150°C and V_R = 25.0 volts — 20 uA

Package Style — DO-7
DC Power Dissipation @ T_A=25°C — 400 mW
Operating Temp. Range — -65°C/+150°C
Storage Temp. Range — -65°C/+150°C
Capacitance Standard
- Standard Device — ±20%
- Suffix A — ±10%
- Suffix B — ±5%
- Suffix C — ±2%



All Dimensions in inches / mm

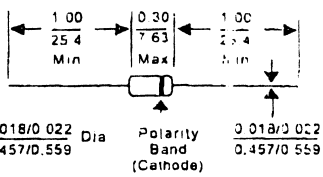
DO-7

Reverse Current @ T_A=25°C and V_R = V_{RR} Volts — 1.0 uA
Reverse Current @ T_A=150°C and V_R = V_{RR} Volts — 50 uA

JEDEC Part Number	Product Highlights	Capacitance at VR=4.0 V and f=1.0 MHz (pF)	Figure of Merit at 4.0 V & 50 MHz Minimum	Capacitance Ratio 0.1V to 4.0V Min	Max	V_{RR} TO 4.0V Min	Max	Maximum Working Voltage V_{RR} (V)	Minimum Reverse Breakdown at I_R=10 uA V_{BR} (V)
1N4801B		6.8		2.40	2.56	0.260	0.285	100	110
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	High Voltage	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	15	2.35	2.46	0.276	0.285	65	72
1N4809B		33.0		2.35	2.46	0.287	0.295	60	66
1N4810B	Low Leakage	39.0		2.34	2.44	0.300	0.306	55	61
1N4811B		47.0		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		6.8		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	Low Voltage	15.0		2.37	2.49	0.438	0.448	25	28
1N4791		18.0		2.36	2.48	0.487	0.497	20	22
1N4792		22.0		2.35	2.46	0.487	0.497	20	22
1N4793	Low Leakage	27.0	15	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		47.0		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

Maximum Ratings

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 uA
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 — ±20%
- Suffix A — ±10%
- Suffix B — ±5%
- Suffix C — ±2%
- Suffix D — ±1%



All Dimensions in inches / mm

DO-7