

TUNING VARACTORS

JEDEC TUNING VARACTORS

JEDEC REGISTERED

1N5139, A through 1N5148, A

1N5441, A, B, C through 1N5456, A, B, C

1N5461, A, B, C through 1N5476, A, B, C

DO-7 Glass Package

FEATURES

- High Q and High Tuning Ratio
- Guaranteed Tuning Ratio and Temperature Coefficient
- Superior Reproducibility
- High Reliability (state-of-the-art passivation plus hermetic packaging)

ELECTRICAL SPECIFICATIONS

T_A = 25°C

C _T ** DIODE CAPACITANCE (pF) ±10% @V _R =4 Vdc, f=1 MHz	MODEL NUMBER	Q,FIGURE OF MERIT V _R =4 Vdc, F=50 MHz MIN	T _R TUNING RATIO C ₄ /C ₃₀ , f=1 MHz MIN**/TYP/MAX**	MODEL NUMBER	Q,FIGURE OF MERIT V _R =4Vdc, F=50 MHz MIN**	T _R TUNING RATIO C ₂ /C ₃₀ , f=50 MHz MIN**/TYP/MAX**	MODEL NUMBER	Q,FIGURE OF MERIT V _R =4Vdc, F=50 MHz MIN**	T _R TUNING RATIO C ₂ /C ₃₀ , f=1 MHz MIN**/TYP/MAX**
6.8	1N5139	350	2.7/2.9/3.2	1N5441A	450	2.5/3.0/3.1	1N5461A	600	2.7/3.0/3.1
8.2				1N5442A	450	2.5/3.0/3.1	1N5462A	600	2.8/3.0/3.1
10	1N5140	300	2.8/3.0/3.3	1N5443A	400	2.6/3.0/3.1	1N5463A	550	2.8/3.0/3.1
12	1N5141	300	2.8/3.0/3.3	1N5444A	400	2.6/3.0/3.1	1N5464A	550	2.8/3.0/3.1
15	1N5142	250	2.8/3.0/3.3	1N5445A	400	2.6/3.0/3.1	1N5465A	550	2.8/3.0/3.1
18	1N5143	250	2.8/3.1/3.4	1N5446A	350	2.6/3.0/3.1	1N5466A	500	2.9/3.0/3.1
20				1N5447A	350	2.6/3.0/3.1	1N5467A	500	2.9/3.0/3.1
22	1N5144	200	3.2/3.4/3.5	1N5448A	350	2.6/3.1/3.2	1N5468A	500	2.9/3.1/3.2
27	1N5145	200	3.2/3.4/3.5	1N5449A	350	2.6/3.1/3.2	1N5469A	500	2.9/3.1/3.2
33	1N5146	200	3.2/3.4/3.5	1N5450A	350	2.6/3.1/3.2	1N5470A	500	2.9/3.1/3.2
36	1N5147	200	3.2/3.4/3.5	1N5451A	300	2.6/3.1/3.2	1N5471A	450	2.9/3.1/3.2
47	1N5148	200	3.2/3.4/3.5	1N5452A	250	2.6/3.1/3.2	1N5472A	400	2.9/3.1/3.2
56				1N5453A	200	2.6/3.2/3.3	1N5473A	300	2.9/3.2/3.3
66				1N5454A	175	2.7/3.2/3.3	1N5474A	250	2.9/3.2/3.3
82				1N5455A	175	2.7/3.2/3.3	1N5475A	225	2.9/3.2/3.3
100				1N5456A	175	2.7/3.2/3.3	1N5476A	200	2.9/3.2/3.3

MAXIMUM RATINGS													
PARAMETER	VALUE	UNIT	VALUE	UNIT	VALUE	UNIT	VALUE	UNIT	VALUE	UNIT	VALUE	UNIT	UNIT
REVERSE VOLTAGE	60	Vdc	30	Vdc	30	Vdc	30	Vdc	30	Vdc	30	Vdc	Vdc
DEVICE DISSIPATION @T _A =25°C	400	mW	400	mW	400	mW	400	mW	400	mW	400	mW	mW
DERATE ABOVE 25°C	2.67	mW/°C	2.67	mW/°C	2.67	mW/°C	2.67	mW/°C	2.67	mW/°C	2.67	mW/°C	mW/°C
OPERATING JUNCTION TEMPERATURE RANGE	+175	°C	+175	°C	+175	°C	+175	°C	+175	°C	+175	°C	°C
STORAGE TEMPERATURE RANGE	-65 TO +200	°C	-65 TO +200	°C	-65 TO +200	°C	-65 TO +200	°C	-65 TO +200	°C	-65 TO +200	°C	°C

Add suffix "A" for ±5% C_T tolerance

Substitute suffix "B" for ±5% C_T tolerance

suffix "C" for ±2% C_T tolerance

suffix "D" for ±1% C_T tolerance

Delete suffix for ±20% tolerance

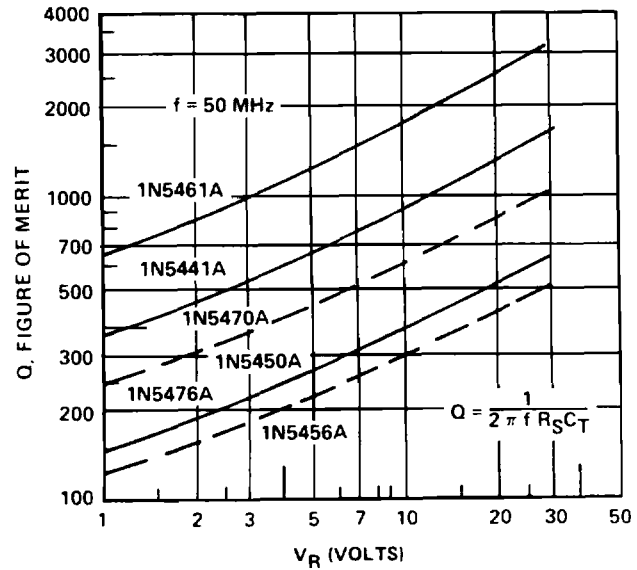
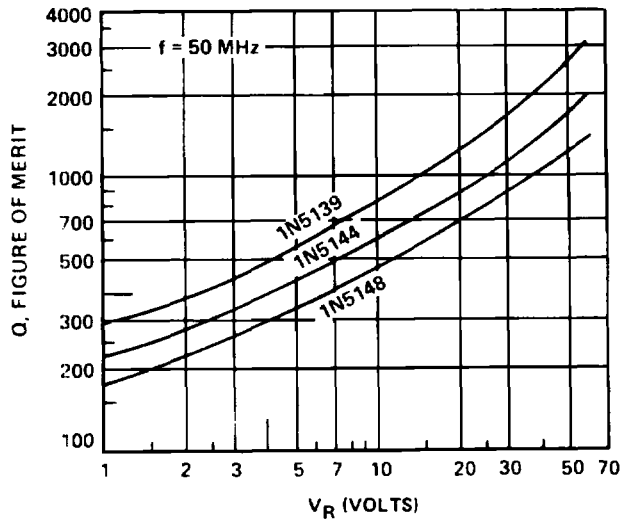
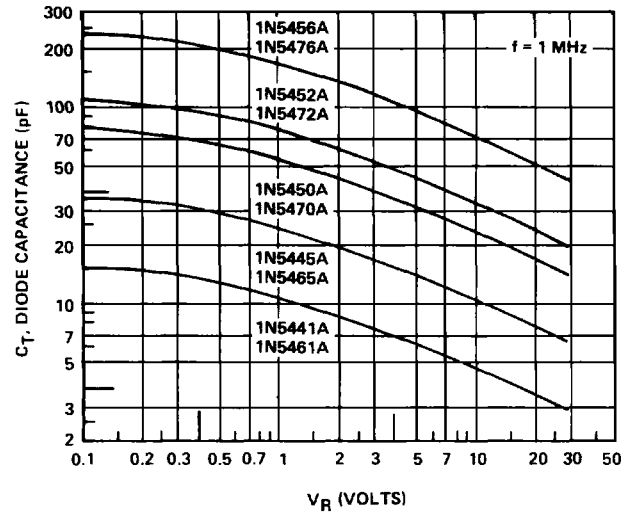
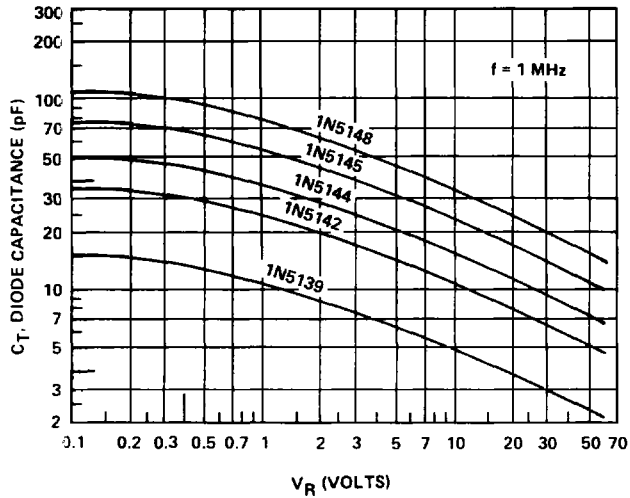
**Indicates JEDEC registered data

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TYPICAL ELECTRICAL CHARACTERISTICS

($T_A = 25^\circ\text{C}$ unless otherwise noted)



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