

Current Regulator and Varactor Tuning Diodes

1N5283 -
1N5314
1N950 -
1N956
KV950 -

CURRENT REGULATOR FIELD EFFECT DIODES

Type Number	Nom Regulator Current Ip(mA) @ Vt = 25V			Min Dynamic Impedance Zt @ Vt = 25V (M ohm)	Min Knee Impedance Zk @ Vk = 6V (M ohm)	Max Limiting Voltage VL @ IL = 0.8 Ip (volts)
	Nom	Min	Max			
Δ 1N5283	0.22	0.198	0.242	25.00	2.750	1.00
Δ 1N5284	0.24	0.216	0.264	19.00	2.350	1.00
Δ 1N5285	0.27	0.243	0.297	14.00	1.950	1.00
Δ 1N5286	0.30	0.270	0.330	9.00	1.600	1.00
Δ 1N5287	0.33	0.297	0.363	6.60	1.350	1.00
Δ 1N5288	0.39	0.351	0.429	4.10	1.000	1.05
Δ 1N5289	0.43	0.387	0.473	3.30	0.870	1.05
Δ 1N5290	0.47	0.423	0.517	2.70	0.750	1.05
Δ 1N5291	0.56	0.504	0.616	1.90	0.560	1.10
Δ 1N5292	0.62	0.558	0.682	1.55	0.470	1.13
Δ 1N5293	0.68	0.612	0.748	1.35	0.400	1.15
Δ 1N5294	0.75	0.675	0.825	1.15	0.335	1.20
Δ 1N5295	0.82	0.738	0.902	1.00	0.290	1.25
Δ 1N5296	0.91	0.819	1.001	0.88	0.240	1.29
Δ 1N5297	1.00	0.900	1.100	0.80	0.205	1.35
Δ 1N5298	1.10	0.990	1.210	0.70	0.180	1.40
Δ 1N5299	1.20	1.080	1.320	0.640	0.155	1.45
Δ 1N5300	1.30	1.170	1.430	0.580	0.135	1.50
Δ 1N5301	1.40	1.260	1.540	0.540	0.115	1.55
Δ 1N5302	1.50	1.350	1.650	0.510	0.105	1.60
Δ 1N5303	1.60	1.440	1.760	0.475	0.092	1.65
Δ 1N5304	1.80	1.620	1.980	0.420	0.074	1.75
Δ 1N5305	2.00	1.800	2.200	0.395	0.061	1.85
Δ 1N5306	2.20	1.980	2.420	0.370	0.052	1.95
Δ 1N5307	2.40	2.160	2.640	0.345	0.044	2.00
Δ 1N5308	2.70	2.430	2.970	0.320	0.035	2.15
Δ 1N5309	3.00	2.700	3.300	0.300	0.029	2.25
Δ 1N5310	3.30	2.970	3.630	0.280	0.024	2.35
Δ 1N5311	3.60	3.240	3.960	0.265	0.020	2.50
Δ 1N5312	3.90	3.510	4.290	0.255	0.017	2.60
Δ 1N5313	4.30	3.870	4.730	0.245	0.014	2.75
Δ 1N5314	4.70	4.230	5.170	0.235	0.012	2.90

JAN
JANTX
JANTXV
versions

GENERAL PURPOSE VARACTOR TUNING DIODES

Type Number	Capacitance @ - 4 Vdc	Capacitance Range 0.1 Vdc to MWV	Quality Factor Q @ - 4 Vdc, f = 50 MHz		Reverse Voltage @ 100 uA	Max Working Voltage
			Min	Typ.		
1N950	35	6-88	7	39	150	130
1N951	50	12-120	7	36	100	80
1N952	70	20-270	7	30	75	60
1N953	100	46-240	7	23	30	25
1N954	35	14-88	7	20	30	25
1N955	50	22-120	7	20	30	25
1N956	70	33-120	7	20	30	25
KV950	35	6-88	100	130	150	130
KV951	50	12-120	100	120	100	80
KV952	70	20-270	100	110	75	60

MAXIMUM RATINGS

Package Style
DC Power Dissipation @ 25 °C (Pd)
DC Power Dissipation @ 75 °C (Pd)
Peak Operating Voltage
Operating Temperature (Topr)
Storage Temperature (Tstg)
Reverse Current @ MWV (Ir)
Reverse Current @ MWV Ta = 150 °C (Ir)
Capacitance Tolerance: Standard
Suffix A
Suffix B
Suffix C
Suffix D

1N5283 - 1N5314

DO-7
600 mW
100 V
- 55 to + 200 °C
- 55 to + 200 °C

1N950 - KV952

DO-7
400 mW
- 65 to + 150 °C
- 65 to + 200 °C
1.0 uAdc
50.0 uAdc
± 20 %
± 10 %
± 5 %
± 2 %
± 1 %

NOTES:

All types ± 5% tolerance.

Δ Denotes military approval.