

Varactor Diodes

PG107 -
PG347
V7 -
V100E

ULTRA Hi-Q

Type Number	Capacitance @ - 4Vdc 1 MHz (pF)	Capacitance Ratio 2V to MWV		Min Quality Factor Q - 4Vdc		Max Working Voltage (Vdc)	Min Reverse Brkdn Voltage Ir = 100 µA (Vdc)
		Min	Max	0.5 V to MWV	f = 50 MHz		
PG107	6.8	4.20	4.60		100	65	70
PG207	6.8	4.00	4.60		100	65	70
PG307	6.8	3.55	4.15		150	50	55
PG110	10.0	4.25	4.65		100	65	70
PG210	10.0	4.05	4.65		100	65	70
PG310	10.0	3.60	4.20		150	50	55
PG115	15.0	4.30	4.70		200	65	70
PG215	15.0	4.10	4.70		200	65	70
PG315	15.0	3.65	4.25		300	50	55
PG122	22.0	4.35	4.75		200	65	70
PG222	22.0	4.15	4.75		200	65	70
PG322	22.0	3.65	4.25		300	50	55
PG133	33.0	4.40	4.80		200	65	70
PG233	33.0	4.20	4.80		200	65	70
PG333	33.0	3.70	4.30		300	50	55
PG139	39.0	4.45	4.85		200	65	70
PG239	39.0	4.25	4.85		200	65	70
PG339	39.0	3.70	4.30		300	50	55
PG147	47.0	4.45	4.85		200	65	70
PG247	47.0	4.45	4.85		200	65	70
PG347	47.0	3.70	4.30		300	50	55

LOW LEAKAGE

V7	7		4.1	13	25	28
V10	10		4.1	13	25	28
V12	12		4.2	13	25	28
V15	15		4.2	13	25	28
V20	20		3.9	7	20	22
V27	27		4.0	7	20	22
V33	33		4.1	7	20	22
V39	39		4.1	7	20	22
V47	47		3.9	7	20	22
V56	56		3.5	7	15	17
V68	68		3.5	9	15	17
V82	82		3.5	9	15	17
V100	100		3.5	9	15	17
V7E	7		6.9	3.0	100	110
V10E	10		6.9	3.5	100	110
V12E	12		7.5	4.0	100	110
V15E	15		7.5	4.5	100	110
V20E	20		7.9	7.0	90	99
V27E	27		7.4	7.0	65	72
V33E	33		6.5	7.0	60	66
V39E	39		6.3	7.0	55	61
V47E	47		6.1	7.0	50	55
V56E	56		5.7	7.0	40	44
V68E	68		4.6	9.0	30	33
V82E	82		4.0	9.0	20	22
V100E	100		4.0	9.0	20	22

MAXIMUM RATINGS

	PG107 - PG347	V7 - V100E
Package Style	DO-7	DO-7 or DO-14
Forward Voltage Drop @ 100 mA		1.0 Vdc
DC Power Dissipation @ Ta = 25 °C	400 mW	400 mW
Operating Temperature Range	- 65 to + 150 °C	- 65 to + 150 °C
Storage Temperature Range	- 65 to + 150 °C	- 65 to + 150 °C
Reverse Current @ MWV	0.5 µA	100 nA
Reverse Current @ MWV (150 °C)	50 µA	
Capacitance Tolerance: Standard Device	± 20 %	± 20 %
Suffix A	± 10 %	± 10 %
Suffix B	± 5 %	± 5 %
Suffix C		± 2 %
Suffix D		± 1 %