

KV2101 -
KV2115
KV2201 -
KV2215
PC107 -

Varactor Diodes

KV2101 to KV2115, KV2201 to KV2215

Type Number	Capacitance @ -4Vdc @ 1MHz (pF)	Min Quality Factor Q = -4Vdc f = 50 MHz	Tuning Ratio 2V to 30V Min	Tuning Ratio 1V to 10V Min
KV2101	6.8	450	2.5	
KV2102	8.2	450	2.5	
KV2103	10.0	400	2.5	
KV2104	12.0	400	2.5	
KV2105	15.0	400	2.5	
KV2106	18.0	350	2.5	
KV2107	22.0	350	2.5	
KV2108	27.0	300	2.5	
KV2109	33.0	200	2.5	
KV2110	39.0	150	2.5	
KV2111	47.0	150	2.5	
KV2112	56.0	150	2.6	
KV2113	68.0	150	2.6	
KV2114	82.0	100	2.6	
KV2115	100.0	100	2.6	
KV2201	6.8	300		1.9
KV2203	10.0	200		2.0
KV2205	15.0	200		2.0
KV2207	22.0	150		2.0
KV2209	33.0	150		2.0
KV2211	47.0	100		2.0
KV2213	68.0	100		2.0
KV2215	100.0	50		2.0

Hi-Q PC107 to PC141

Type Number	Capacitance @ -4Vdc 1 MHz (pF)	Typ Capacitance Ratio 0.5V to MWV	Min Quality Factor Q = -4Vdc f = 50MHz	f = 100MHz	Max Working Voltage (Vdc)
PC107	6.8	4.5		75	30
PC112	10.0	6.9	50		80
PC113	22.0	7.5	50		80
PC114	47.0	7.4	50		80
PC115	10.0	7.7	100		100
PC116	22.0	8.2	100		100
PC117	47.0	8.0	100		100
PC122	47.0	8.0	75		100
PC123	15.0	4.6	50		30
PC124	15.0	5.9	125		50
PC125	15.0	7.0	50		80
PC126	15.0	7.9	100		100
PC127	33.0	4.6	50		30
PC128	33.0	6.0	125		50
PC129	33.0	7.5	50		80
PC130	33.0	8.2	100		100
PC132	10.0	4.5	50		30
PC133	22.0	4.6	50		30
PC134	47.0	4.6	550		30
PC135	10.0	5.8		75	50
PC136	22.0	6.0	125		50
PC137	47.0	6.0	100		50
PC138	6.8	4.5		38	30
PC139	6.8	5.7		75	50
PC140	6.8	6.8		38	80
PC141	6.8	7.6		68	100

MAXIMUM RATINGS

Package Style	DO-7
DC Power Dissipation	@ Ta = 25 °C
Forward Voltage Drop	@ If = 100 mA
Reverse Breakdown Voltage @ 10 µA	
Reverse Current	@ Ta = 25 °C
Reverse Current	@ Ta = 150 °C
Operating Temperature Range	
Storage Temperature Range	
Capacitance Tolerance:	Standard Device
	Suffix A
	Suffix B
	Suffix C
	Suffix D

KV2101- KV2115

DO-7
400 mW
30 V
0.02 µA @ 25 Vdc
20 µA @ 25 Vdc
- 65 to + 150 °C
- 65 to + 150 °C
± 20 %
± 10 %
± 5 %
± 2 %
± 1 %

KV2201 - KV2215

DO-7
400 mW
25 V min
0.02 µA @ 20 Vdc
20 µA @ 20 Vdc
- 65 to + 150 °C
- 65 to + 150 °C
± 20 %
± 10 %
± 5 %
± 2 %
± 1 %

PC107-PC141

400 mW
1.0 Vdc
0.5 µA @ MWV
- 65 to + 150 °C
- 65 to + 150 °C
± 20 %
± 10 %
± 5 %
± 2 %
± 1 %