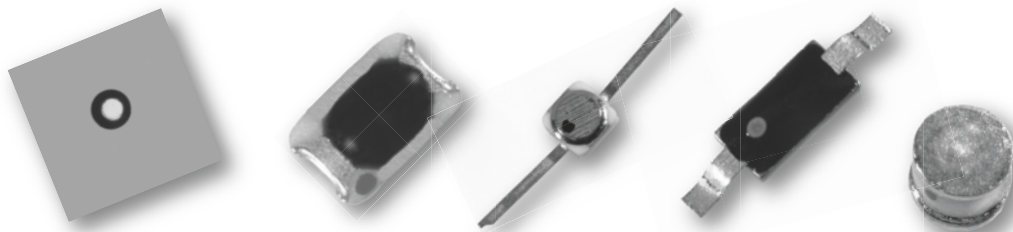


GaAs Hyperabrupt Varactor Diodes MGV Series



Description

The MGV series of hyperabrupt varactor diodes feature passivated mesa construction for low leakage and excellent post tuning drift. Available in three constant gamma families of 0.75, 1.0 and 1.25. These diodes will find application in tunable filters and oscillators up to 40 GHz. Optimum performance is obtained using die however packaged devices are available as well diodes screened per MIL-PRF-19500 and MIL-PRF-38534.

Features

- 0 to 22 Volt tuning voltage
- Tuning ratios up to 10 (typical)
- Three constant gamma families - 0.75, 1.0, and 1.25
- Screening per MIL-PRF-19500 and MIL-PRF-35834 available

Absolute Maximum Ratings

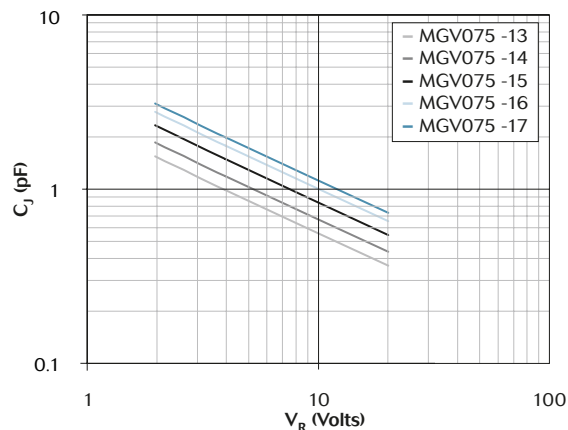
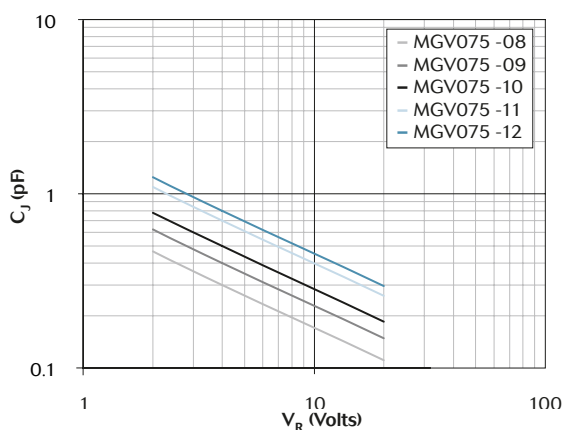
Parameters	Rating
Reverse Voltage	22 V
Forward Current	100 mA
Power Dissipation	
Chip	250 mW at $T_C = 25^\circ\text{C}$, derate linearly to zero at $T_C = +200^\circ\text{C}$
E28, E28X, & 0805-2	100 mW at $T_A = 25^\circ\text{C}$, derate linearly to zero at $T_A = +150^\circ\text{C}$
H20, P55 & P55	100 mW at $T_A = 25^\circ\text{C}$, derate linearly to zero at $T_A = +200^\circ\text{C}$
Operating Temperature	
Chip	-65°C to $+200^\circ\text{C}$
E28, E28X, & 0805-2	-65°C to $+150^\circ\text{C}$
H20, P55 & P55	-65°C to $+200^\circ\text{C}$
Storage Temperature	Same as operating temperature.
Soldering Temperature	
Chip	$+320^\circ\text{C}$ for 10 seconds
Packaged	$+260^\circ\text{C}$ peak per JEDEC J-STD-20C

Chip

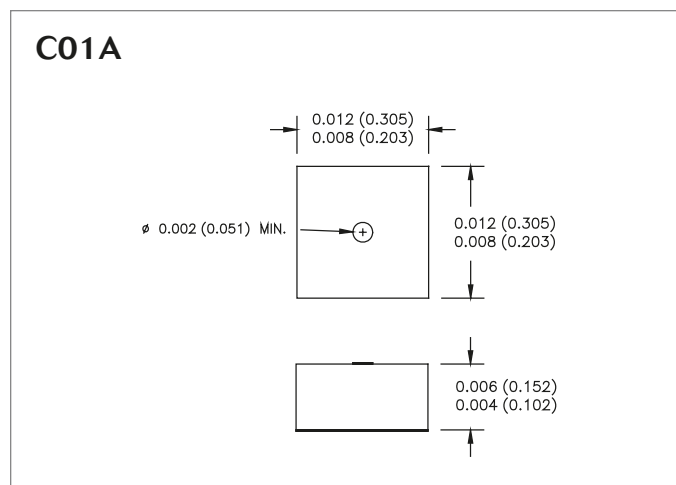
Electrical Specifications, $T_A = 25^\circ\text{C}$ $V_{BR} = 22\text{ V min.}$

Model	I_R MAX nA	C_J			Tuning Ratio			Q MIN	Package
		MIN pF	NOM pF	MAX pF	MIN	TYP	TYP		
MGV075-08	100	0.25	0.30	0.35	2.2	2.8	3.5	4,000	C01A
MGV075-09	100	0.35	0.40	0.45	2.2	2.8	3.5	4,000	C01A
MGV075-10	100	0.45	0.50	0.55	2.2	2.8	3.5	3,000	C01A
MGV075-11	100	0.63	0.70	0.77	2.2	2.8	3.5	3,000	C01A
MGV075-12	100	0.72	0.80	0.88	2.2	2.8	3.5	3,000	C01A
MGV075-13	100	0.90	1.00	1.10	2.2	2.8	3.5	3,000	C01A
MGV075-14	100	1.08	1.20	1.32	2.2	2.8	3.5	3,000	C01A
MGV075-15	100	1.35	1.50	1.65	2.2	2.8	3.5	3,000	C01A
MGV075-16	100	1.62	1.80	1.98	2.2	2.8	3.5	3,000	C01A
MGV075-17	100	1.80	2.00	2.20	2.2	2.8	3.5	3,000	C01A
Test Conditions	$V_R = 18\text{ V}$	$V_R = 4\text{ V}$ $F = 1\text{ MHz}$			$V_R = 2\text{ to }12\text{ V}$ $F = 1\text{ MHz}$			$V_R = 4\text{ V}$ $F = 50\text{ MHz}$	

Typical Performance, Chips



Outline Drawing



GaAs Hyperabrupt Varactor Diodes

MGV Series, $\Gamma = 0.75 \pm 10\%$



Packaged

Electrical Specifications, $T_A = 25^\circ\text{C}$ $V_{BR} = 22\text{ V min.}$

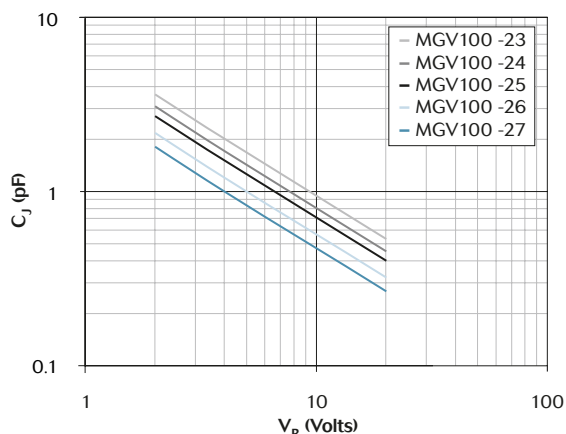
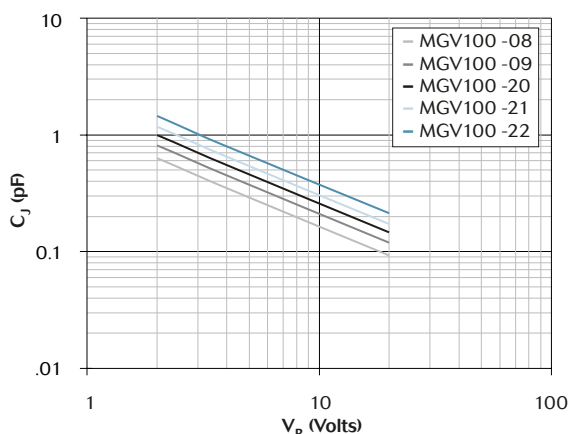
Model	I_R MAX nA	C_T			Tuning Ratio			Q MIN	C_P TYP pF	L_P TYP nH	Package
		MIN pF	NOM pF	MAX pF	MIN	TYP	TYP				
MGV075-08-E28 / 28 X	100	0.32	0.38	0.44	1.4	2.2	2.7	4,000	0.08	0.4	E28 / 28X
MGV075-08H20	100	0.41	0.48	0.56	0.4	1.4	1.7	4,000	0.18	0.5	H20
MGV075-08-P55	100	0.36	0.43	0.50	0.9	1.8	2.2	4,000	0.13	0.35	P55
MGV075-08-0805-2	100	0.30	0.36	0.42	1.6	2.3	2.9	4,000	0.06	0.4	0805-2
MGV075-09-E28 / 28 X	100	0.42	0.48	0.54	1.6	2.3	2.9	4,000	0.08	0.4	E28 / 28X
MGV075-09-H20	100	0.51	0.58	0.66	0.9	1.7	2.1	4,000	0.18	0.5	H20
MGV075-09-P55	100	0.46	0.53	0.60	1.3	2.0	2.5	4,000	0.13	0.35	P55
MGV075-09-0805-2	100	0.40	0.46	0.52	1.8	2.4	3.0	4,000	0.06	0.4	0805-2
MGV075-10-E28 / 28 X	100	0.52	0.58	0.64	1.8	2.4	3.0	3,000	0.08	0.4	E28 / 28X
MGV075-10-H20	100	0.61	0.68	0.76	1.2	1.9	2.4	3,000	0.18	0.5	H20
MGV075-10-P55	100	0.56	0.63	0.70	1.5	2.1	2.7	3,000	0.13	0.35	P55
MGV075-10-0805-2	100	0.50	0.56	0.62	1.9	2.5	3.1	3,000	0.06	0.4	0805-2
MGV075-11-E28 / 28 X	100	0.70	0.78	0.86	1.9	2.5	3.1	3,000	0.08	0.4	E28 / 28X
MGV075-11-H20	100	0.79	0.88	0.98	1.5	2.1	2.7	3,000	0.18	0.5	H20
MGV075-11-P55	100	0.74	0.83	0.92	1.7	2.3	2.9	3,000	0.13	0.35	P55
MGV075-11-0805-2	100	0.68	0.76	0.84	2.0	2.6	3.2	3,000	0.06	0.4	0805-2
MGV075-12-E28 / 28 X	100	0.79	0.88	0.97	1.9	2.5	3.2	3,000	0.08	0.4	E28 / 28X
MGV075-12-H20	100	0.88	0.98	1.09	1.6	2.2	2.8	3,000	0.18	0.5	H20
MGV075-12-P55	100	0.83	0.93	1.03	1.7	2.4	3.0	3,000	0.13	0.35	P55
MGV075-12-0805-2	100	0.77	0.86	0.95	2.0	2.6	3.3	3,000	0.06	0.4	0805-2
MGV075-13-E28 / 28 X	100	0.97	1.08	1.19	2.0	2.6	3.2	3,000	0.08	0.4	E28 / 28X
MGV075-13-H20	100	1.06	1.18	1.31	1.7	2.3	2.9	3,000	0.18	0.5	H20
MGV075-13-P55	100	1.01	1.13	1.25	1.8	2.5	3.1	3,000	0.13	0.35	P55
MGV075-13-0805-2	100	0.95	1.06	1.17	2.0	2.6	3.3	3,000	0.06	0.4	0805-2
MGV075-14-E28 / 28 X	100	1.15	1.28	1.41	2.0	2.6	3.3	3,000	0.08	0.4	E28 / 28X
MGV075-14-H20	100	1.24	1.38	1.53	1.8	2.4	3.0	3,000	0.18	0.5	H20
MGV075-14-P55	100	1.19	1.33	1.47	1.9	2.5	3.2	3,000	0.13	0.35	P55
MGV075-14-0805-2	100	1.13	1.26	1.39	2.1	2.7	3.3	3,000	0.06	0.4	0805-2
MGV075-15-E28 / 28 X	100	1.42	1.58	1.74	2.1	2.7	3.3	3,000	0.08	0.4	E28 / 28X
MGV075-15-H20	100	1.51	1.68	1.86	1.9	2.5	3.1	3,000	0.18	0.5	H20
MGV075-15-P55	100	1.46	1.63	1.80	2.0	2.6	3.2	3,000	0.13	0.35	P55
MGV075-15-0805-2	100	1.40	1.56	1.72	2.1	2.7	3.4	3,000	0.06	0.4	0805-2
MGV075-16-E28 / 28 X	100	1.69	1.88	2.07	2.1	2.7	3.4	3,000	0.08	0.4	E28 / 28X
MGV075-16-H20	100	1.78	1.98	2.19	1.9	2.5	3.2	3,000	0.18	0.5	H20
MGV075-16-P55	100	1.73	1.93	2.13	2.0	2.6	3.3	3,000	0.13	0.35	P55
MGV075-16-0805-2	100	1.67	1.86	2.05	2.1	2.7	3.4	3,000	0.06	0.4	0805-2
MGV075-17-E28 / 28 X	100	1.87	2.08	2.29	2.1	2.7	3.4	3,000	0.08	0.4	E28 / 28X
MGV075-17-H20	100	1.96	2.18	2.41	1.9	2.6	3.2	3,000	0.18	0.5	H20
MGV075-17-P55	100	1.91	2.13	2.35	2.0	2.6	3.3	3,000	0.13	0.35	P55
MGV075-17-0805-2	100	1.85	2.06	2.27	2.1	2.7	3.4	3,000	0.06	0.4	0805-2
Test Conditions	$V_R = 18\text{ V}$	$V_R = 4\text{ V}$ $F = 1\text{ MHz}$			$V_R = 2\text{ to }12$		$V_R = 2\text{ to }20$	$V_R = 4\text{ V}$ $F = 50\text{ MHz}$	$F = 1\text{ GHz}$		

Chip

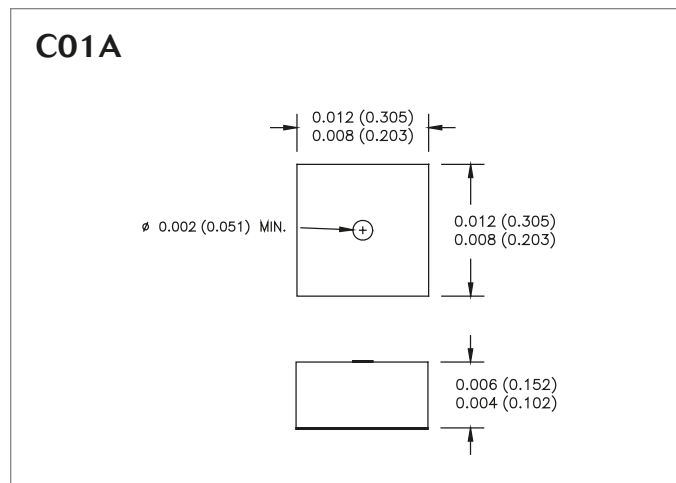
Electrical Specifications, $T_A = 25^\circ\text{C}$ $V_{BR} = 22\text{ V min.}$

Model	I_R MAX nA	C_J			Tuning Ratio			Q MIN	Package
		MIN pF	NOM pF	MAX pF	MIN	TYP	TYP		
MGV100-08	100	0.30	0.35	0.40	2.7	3.4	5.0	4,000	C01A
MGV100-09	100	0.40	0.45	0.50	2.7	3.4	5.0	4,000	C01A
MGV100-20	100	0.50	0.55	0.61	2.7	3.4	5.0	4,000	C01A
MGV100-21	100	0.58	0.65	0.72	2.7	3.4	5.0	4,000	C01A
MGV100-22	100	0.72	0.80	0.88	2.7	3.4	5.0	3,000	C01A
MGV100-23	100	0.90	1.00	1.10	2.7	3.4	5.0	3,000	C01A
MGV100-24	100	1.08	1.20	1.32	2.7	3.4	5.0	3,000	C01A
MGV100-25	100	1.35	1.50	1.65	2.7	3.4	5.0	3,000	C01A
MGV100-26	100	1.63	1.70	1.87	2.7	3.4	5.0	3,000	C01A
MGV100-27	100	1.80	2.00	2.20	2.7	3.4	5.0	3,000	C01A
Test Conditions	$V_R = 18\text{ V}$	$V_R = 4\text{ V}$ $F = 1\text{ MHz}$			$V_R = 2\text{ to }12\text{ V}$ $F = 1\text{ MHz}$			$V_R = 4\text{ V}$ $F = 50\text{ MHz}$	

Typical Performance, Chips



Outline Drawing



GaAs Hyperabrupt Varactor Diodes

MGV Series, $\Gamma = 1.00 \pm 10\%$



Packaged

Electrical Specifications, $T_A = 25^\circ\text{C}$ $V_{BR} = 22\text{ V min.}$

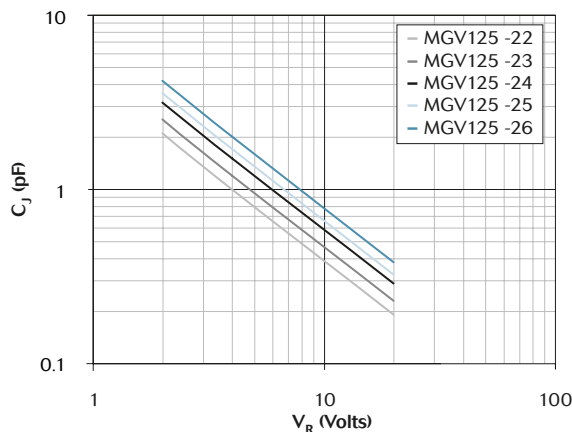
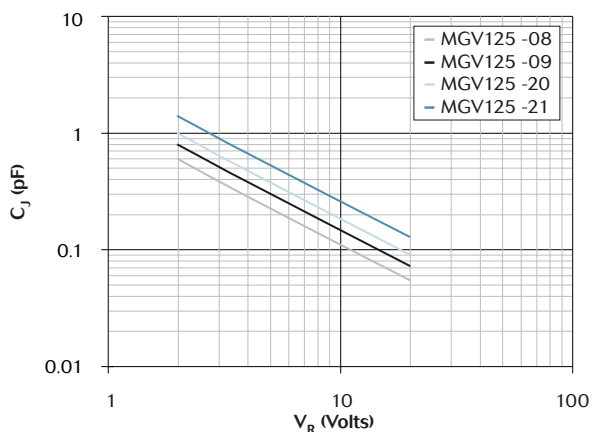
Model	I_R MAX nA	C_T			Tuning Ratio			Q MIN	C_P TYP pF	L_P TYP nH	Package
		MIN pF	NOM pF	MAX pF	MIN	TYP	TYP				
MGV100-08-E28 / 28 X	100	0.37	0.43	0.49	1.9	2.7	4.0	4,000	0.08	0.4	E28 / 28X
MGV100-08H20	100	0.46	0.53	0.61	0.8	1.9	2.8	4,000	0.18	0.5	H20
MGV100-08-P55	100	0.41	0.48	0.55	1.4	2.3	3.4	4,000	0.13	0.35	P55
MGV100-08-0805-2	100	0.35	0.41	0.47	2.1	2.9	4.3	4,000	0.06	0.4	0805-2
MGV100-09-E28 / 28 X	100	0.47	0.53	0.59	2.1	2.9	4.2	4,000	0.08	0.4	E28 / 28X
MGV100-09-H20	100	0.56	0.63	0.71	1.3	2.2	3.2	4,000	0.18	0.5	H20
MGV100-09-P55	100	0.51	0.58	0.65	1.7	2.5	3.7	4,000	0.13	0.35	P55
MGV100-09-0805-2	100	0.45	0.51	0.57	2.2	3.0	4.4	4,000	0.06	0.4	0805-2
MGV100-20-E28 / 28 X	100	0.57	0.63	0.70	2.2	3.0	4.3	4,000	0.08	0.4	E28 / 28X
MGV100-20-H20	100	0.66	0.73	0.82	1.6	2.4	3.5	4,000	0.18	0.5	H20
MGV100-20-P55	100	0.61	0.68	0.76	1.9	2.7	3.9	4,000	0.13	0.35	P55
MGV100-20-0805-2	100	0.55	0.61	0.68	2.3	3.1	4.5	4,000	0.06	0.4	0805-2
MGV100-21-E28 / 28 X	100	0.65	0.73	0.81	2.3	3.0	4.4	4,000	0.08	0.4	E28 / 28X
MGV100-21-H20	100	0.74	0.83	0.93	1.7	2.6	3.8	4,000	0.18	0.5	H20
MGV100-21-P55	100	0.69	0.78	0.87	2.0	2.8	4.1	4,000	0.13	0.35	P55
MGV100-21-0805-2	100	0.63	0.71	0.79	2.4	3.1	4.6	4,000	0.06	0.4	0805-2
MGV100-22-E28 / 28 X	100	0.79	0.88	0.97	2.4	3.1	4.5	3,000	0.08	0.4	E28 / 28X
MGV100-22-H20	100	0.88	0.98	1.09	1.9	2.7	4.0	3,000	0.18	0.5	H20
MGV100-22-P55	100	0.83	0.93	1.03	2.1	2.9	4.3	3,000	0.13	0.35	P55
MGV100-22-0805-2	100	0.77	0.86	0.95	2.4	3.2	4.7	3,000	0.06	0.4	0805-2
MGV100-23-E28 / 28 X	100	0.97	1.08	1.19	2.4	3.2	4.6	3,000	0.08	0.4	E28 / 28X
MGV100-23-H20	100	1.06	1.18	1.31	2.1	2.8	4.2	3,000	0.18	0.5	H20
MGV100-23-P55	100	1.01	1.13	1.25	2.3	3.0	4.4	3,000	0.13	0.35	P55
MGV100-23-0805-2	100	0.95	1.06	1.17	2.5	3.2	4.7	3,000	0.06	0.4	0805-2
MGV100-24-E28 / 28 X	100	1.15	1.28	1.41	2.5	3.2	4.7	3,000	0.08	0.4	E28 / 28X
MGV100-24-H20	100	1.24	1.38	1.53	2.2	2.9	4.3	3,000	0.18	0.5	H20
MGV100-24-P55	100	1.19	1.33	1.47	2.3	3.1	4.5	3,000	0.13	0.35	P55
MGV100-24-0805-2	100	1.13	1.26	1.39	2.5	3.2	4.8	3,000	0.06	0.4	0805-2
MGV100-25-E28 / 28 X	100	1.42	1.58	1.74	2.5	3.2	4.8	3,000	0.08	0.4	E28 / 28X
MGV100-25-H20	100	1.51	1.68	1.86	2.3	3.0	4.5	3,000	0.18	0.5	H20
MGV100-25-P55	100	1.46	1.63	1.80	2.4	3.1	4.6	3,000	0.13	0.35	P55
MGV100-25-0805-2	100	1.40	1.56	1.72	2.6	3.3	4.8	3,000	0.06	0.4	0805-2
MGV100-26-E28 / 28 X	100	1.70	1.78	1.96	2.5	3.3	4.8	3,000	0.08	0.4	E28 / 28X
MGV100-26-H20	100	1.79	1.88	2.08	2.4	3.1	4.5	3,000	0.18	0.5	H20
MGV100-26-P55	100	1.74	1.83	2.02	2.5	3.2	4.7	3,000	0.13	0.35	P55
MGV100-26-0805-2	100	1.68	1.76	1.94	2.6	3.3	4.8	3,000	0.06	0.4	0805-2
MGV100-27-E28 / 28 X	100	1.87	2.08	2.29	2.6	3.3	4.8	3,000	0.08	0.4	E28 / 28X
MGV100-27-H20	100	1.96	2.18	2.41	2.4	3.1	4.6	3,000	0.18	0.5	H20
MGV100-27-P55	100	1.91	2.13	2.35	2.5	3.2	4.7	3,000	0.13	0.35	P55
MGV100-27-0805-2	100	1.85	2.06	2.27	2.6	3.3	4.9	3,000	0.06	0.4	0805-2
Test Conditions	$V_R = 18\text{ V}$	$V_R = 4\text{ V}$ $F = 1\text{ MHz}$			$V_R = 2\text{ to }12$		$V_R = 2\text{ to }20$	$V_R = 4\text{ V}$ $F = 50\text{ MHz}$	$F = 1\text{ GHz}$		

Chip

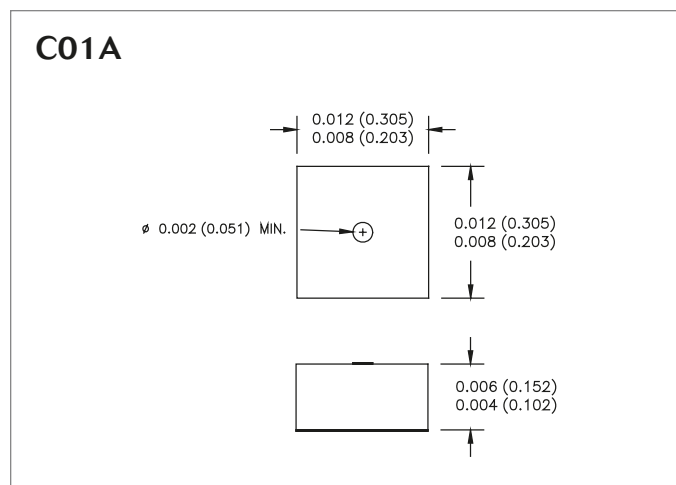
Electrical Specifications, $T_A = 25^\circ\text{C}$ $V_{BR} = 22\text{ V min.}$

Model	I_R MAX nA	C_J			Tuning Ratio			Q MIN	Package
		MIN pF	NOM pF	MAX pF	MIN	TYP	TYP		
MGV125-08	100	0.25	0.30	0.35	4.0	5.0	8.4	4,000	C01A
MGV125-09	100	0.35	0.40	0.45	4.0	5.0	8.5	4,000	C01A
MGV125-20	100	0.45	0.50	0.55	4.0	5.0	8.6	4,000	C01A
MGV125-21	100	0.63	0.70	0.77	4.0	5.0	8.8	4,000	C01A
MGV125-22	100	0.90	1.00	1.10	4.0	5.0	9.0	3,000	C01A
MGV125-23	100	1.08	1.20	1.32	4.0	5.0	9.5	3,000	C01A
MGV125-24	100	1.35	1.50	1.65	4.0	5.0	10	3,000	C01A
MGV125-25	100	1.63	1.70	1.87	4.0	5.0	10	3,000	C01A
MGV125-26	100	1.80	2.00	2.20	4.0	5.0	10	3,000	C01A
Test Conditions	$V_R = 18\text{ V}$	$V_R = 4\text{ V}$ $F = 1\text{ MHz}$			$V_R = 2\text{ to }12\text{ V}$ $F = 1\text{ MHz}$			$V_R = 4\text{ V}$ $F = 50\text{ MHz}$	

Typical Performance, Chips



Outline Drawing



GaAs Hyperabrupt Varactor Diodes

MGV Series, $\Gamma = 1.25 \pm 10\%$



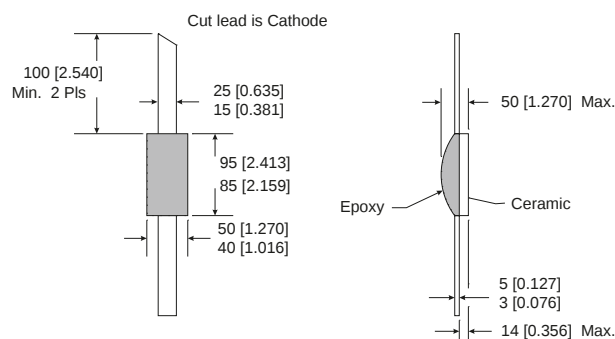
Packaged

Electrical Specifications, $T_A = 25^\circ\text{C}$ $V_{BR} = 22\text{ V min.}$

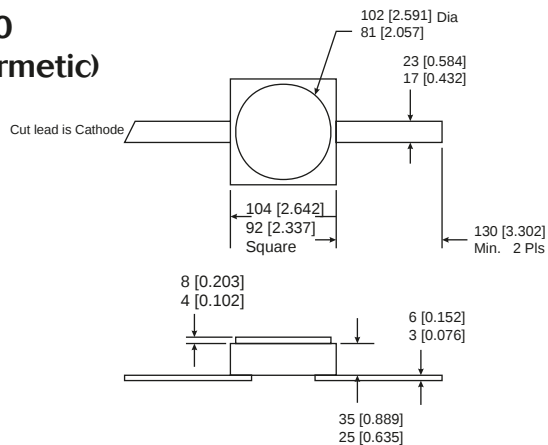
Model	I_R MAX nA	C_T			Tuning Ratio			Q MIN	C_P TYP pF	L_P TYP nH	Package
		MIN pF	NOM pF	MAX pF	MIN	TYP	TYP				
MGV125-08-E28 / 28 X	100	0.32	0.38	0.44	2.5	3.9	6.5	4,000	0.08	0.4	E28 / 28X
MGV125-08H20	100	0.41	0.48	0.56	0.7	2.4	4.1	4,000	0.18	0.5	H20
MGV125-08-P55	100	0.36	0.43	0.50	1.6	3.1	5.3	4,000	0.13	0.35	P55
MGV125-08-0805-2	100	0.30	0.36	0.42	2.9	4.1	7.0	4,000	0.06	0.4	0805-2
MGV125-09-E28 / 28 X	100	0.42	0.48	0.54	2.9	4.1	7.0	4,000	0.08	0.4	E28 / 28X
MGV125-09-H20	100	0.51	0.58	0.66	1.6	3.0	5.1	4,000	0.18	0.5	H20
MGV125-09-P55	100	0.46	0.53	0.60	2.3	3.6	6.0	4,000	0.13	0.35	P55
MGV125-09-0805-2	100	0.40	0.46	0.52	3.2	4.3	7.4	4,000	0.06	0.4	0805-2
MGV125-20-E28 / 28 X	100	0.52	0.58	0.64	3.2	4.3	7.3	4,000	0.08	0.4	E28 / 28X
MGV125-20-H20	100	0.61	0.68	0.76	2.2	3.4	5.8	4,000	0.18	0.5	H20
MGV125-20-P55	100	0.56	0.63	0.70	2.7	3.8	6.6	4,000	0.13	0.35	P55
MGV125-20-0805-2	100	0.50	0.56	0.62	3.4	4.5	7.7	4,000	0.06	0.4	0805-2
MGV125-21-E28 / 28 X	100	0.70	0.78	0.86	3.4	4.5	7.9	4,000	0.08	0.4	E28 / 28X
MGV125-21-H20	100	0.79	0.88	0.98	2.7	3.8	6.7	4,000	0.18	0.5	H20
MGV125-21-P55	100	0.74	0.83	0.92	3.1	4.2	7.3	4,000	0.13	0.35	P55
MGV125-21-0805-2	100	0.68	0.76	0.84	3.6	4.6	8.1	4,000	0.06	0.4	0805-2
MGV125-22-E28 / 28 X	100	0.97	1.08	1.19	3.6	4.6	8.3	3,000	0.08	0.4	E28 / 28X
MGV125-22-H20	100	1.06	1.18	1.31	3.1	4.2	7.5	3,000	0.18	0.5	H20
MGV125-22-P55	100	1.01	1.13	1.25	3.3	4.4	7.9	3,000	0.13	0.35	P55
MGV125-22-0805-2	100	0.95	1.06	1.17	3.7	4.7	8.5	3,000	0.06	0.4	0805-2
MGV125-23-E28 / 28 X	100	1.15	1.28	1.41	3.7	4.7	8.9	3,000	0.08	0.4	E28 / 28X
MGV125-23-H20	100	1.24	1.38	1.53	3.2	4.3	8.2	3,000	0.18	0.5	H20
MGV125-23-P55	100	1.19	1.33	1.47	3.4	4.5	8.6	3,000	0.13	0.35	P55
MGV125-23-0805-2	100	1.13	1.26	1.39	3.7	4.8	9.1	3,000	0.06	0.4	0805-2
MGV125-24-E28 / 28 X	100	1.42	1.58	1.74	3.7	4.8	9.5	3,000	0.08	0.4	E28 / 28X
MGV125-24-H20	100	1.51	1.68	1.86	3.4	4.5	8.9	3,000	0.18	0.5	H20
MGV125-24-P55	100	1.46	1.63	1.80	3.6	4.6	9.2	3,000	0.13	0.35	P55
MGV125-24-0805-2	100	1.40	1.56	1.72	3.8	4.8	9.6	3,000	0.06	0.4	0805-2
MGV125-25-E28 / 28 X	100	1.70	1.78	1.96	3.8	4.8	9.6	3,000	0.08	0.4	E28 / 28X
MGV125-25-H20	100	1.79	1.88	2.08	3.5	4.5	9.0	3,000	0.18	0.5	H20
MGV125-25-P55	100	1.74	1.83	2.02	3.6	4.7	9.3	3,000	0.13	0.35	P55
MGV125-25-0805-2	100	1.68	1.76	1.94	3.8	4.8	9.7	3,000	0.06	0.4	0805-2
MGV125-26-E28 / 28 X	100	1.87	2.08	2.29	3.8	4.8	9.6	3,000	0.08	0.4	E28 / 28X
MGV125-26-H20	100	1.96	2.18	2.41	3.5	4.6	9.2	3,000	0.18	0.5	H20
MGV125-26-P55	100	1.91	2.13	2.35	3.7	4.7	9.4	3,000	0.13	0.35	P55
MGV125-26-0805-2	100	1.85	2.06	2.27	3.8	4.9	9.7	3,000	0.06	0.4	0805-2
Test Conditions	$V_R = 18\text{ V}$	$V_R = 4\text{ V}$ $F = 1\text{ MHz}$			$V_R = 2\text{ to }12$		$V_R = 2\text{ to }20$	$V_R = 4\text{ V}$ $F = 50\text{ MHz}$	$F = 1\text{ GHz}$		

GaAs Hyperabrupt Varactor Diodes MGV Series

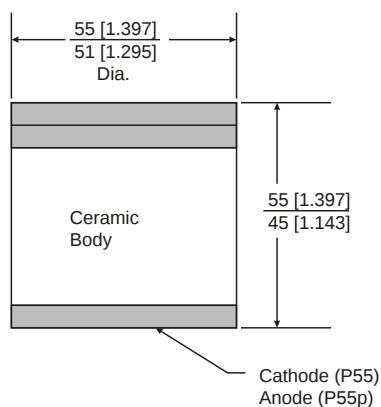
E28 (non-hermetic)



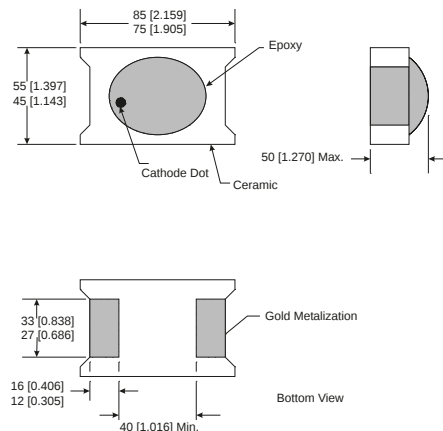
H20 (hermetic)



P55 (hermetic)



0805-02 (non-hermetic)



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