

Varistors (Temperature Compensating Diodes)



ECG Type	Description	Forward Current I _F mA	Forward Voltage V _F			Fig. No.
			Min. Volts	Max. Volts	Change Per °C in mV	
ECG600	Silicon	10	0.63 at 3 mA	0.69 at 3 mA	2	Z4
ECG601	Silicon	20	0.56 at 1.5 mA	0.61 at 1.5 mA	1.5	Z4
ECG605A	Silicon	100	1.26 at 3 mA	1.36 at 3 mA	4.6	Z2

Fig. Z2 ECG605A

Fig. Z4 DO-35 ECG600 ECG601

Varistors (Voltage Compensating Diodes)

ECG Type	Forward Characteristics	Maximum Forward DC Current	Maximum Surge Current for 10 msec	Reverse Characteristics
ECG606	1.8 V ± 0.2 V at 1 mA 2.3 V ± 0.25 V at 70 mA	150 mA	27 A	10 μA Max at 100 V
ECG607	2.35 V ± 0.25 V at 1 mA 3.0 V ± 0.3 V at 70 mA	100 mA	25 A	10 μA Max at 100 V

Fig. Z7

Varactors (Variable Capacitance Diodes)



ECG Type	Cap. at 4 Volts pF	Cap. Ratio C ₂ /C ₃₀	Reverse Voltage V _R Volts Max.	Forward Current I _F mA Max.	Device Diss. P _D mW Max.
ECG610	6.8	2.7	30	200	280
ECG611	10.0	2.9	30	200	280
ECG612	12.0	2.9	30	200	280
ECG613	22.0	2.9	30	200	280
ECG614	33.0	3.2	30	200	280

Fig. Z13

Matched Varactors (Variable Capacitance Diodes) (Matched Set of Four)

ECG Type	Matched Cap. at 3 Volts pF	Cap. Ratio C ₃ /C ₂₅	Reverse Voltage V _R Volts Max.	Max. Osc. Freq. at 3 V GHz	Series Inductance L _s (nH)	Series Resistance R _s Max. Ohms
ECG616	11	5.5	30	24	2.5	0.8

Fig. Z11A ECG616

Varactors (Radio Tuning Diodes)

ECG Type	Application Band	Cap. In pF	Cap. In pF	Cap. Ratio	Reverse Voltage V _R Max Volts	Q Min. @ 100 MHz	Fig. No.
ECG617	FM Tuning	39 at 3 V	15 at 30 V	2.6	32	100 at 3 V	Z13-1
ECG618	AM Tuning	440 at 1.2 V	22 at 8 V	15.5	12	200 at 1 V	Z13-2

Fig. Z13-1 ECG617

Fig. Z13-2 ECG618