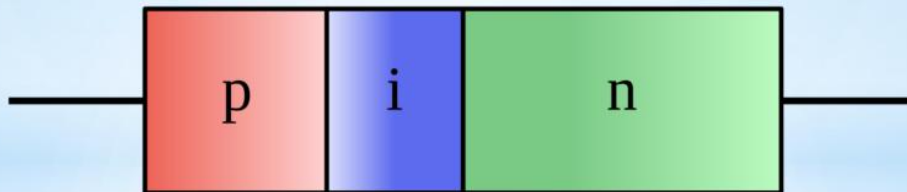




## GaAs ultrafast pin-diode chips



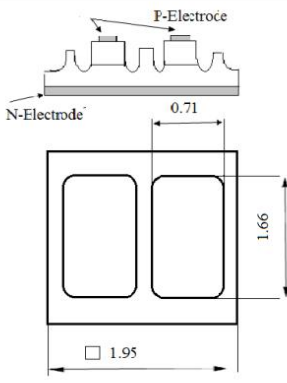
### GaAs voltage variable capacitor matrix chip 076

#### Electrical characteristics

Parameter	Symbol	Min	Max	Unit	Conditions
Forward Voltage drop	$V_F$	-	1,5	V	$I_F = 100 \text{ mA}$
Reverse current	$I_R$	-	1,0	$\mu\text{A}$	$V_R = 100 \text{ V}$
Capacitance	C	61	75	pF	$V_R = 4 \text{ V}$ , $f = 1 \text{ MHz}$

#### Design

Parameters	076	
Chip size, mm	$1,95_{-0,03} \times 1,95_{-0,03}$	
Chip thickness, $\mu\text{m}$ (H)	$380_{\pm 15}$	
Size of anode part, mm	$2 \times 0,71_{-0,03} \times 1,66_{-0,03}$	
Size of cathode part, mm	$1,95_{-0,03} \times 1,95_{-0,03}$	
Anode Metallization	Au	
Cathode Metallization	Au	



The diagrams show a cross-sectional view of the chip with an N-Electrode and an F-Electrode. The top view shows a square chip with a side length of 1.95 mm. The anode part consists of two rectangular regions, each with a width of 0.71 mm and a height of 1.66 mm.