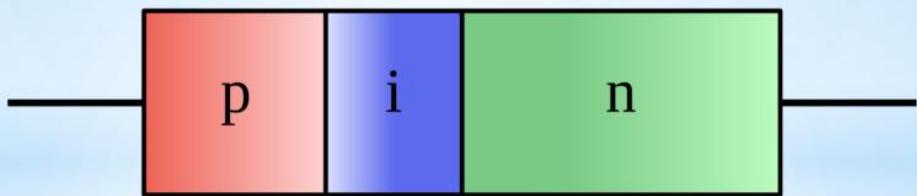




GaAs ultrafast pin-diode chips



GaAs rectifier pin-diode chips ADV 119AN5, ADV 120AN5

- Ultra-fast switching
- High radiation resistance
- High-temperature diode structures

Electrical characteristics

Parameter	Symbol	Unit	Value			Test conditions	Remark
			Min.	Typ.	Max.		
Forward voltage drop	V_F	V	-	1,6	1,7	$I_F=15A$ at $T=+25^{\circ}C$ (normal cond.)	2
			-	1,9	2,0	$I_F=15A$ at $T=-60^{\circ}C$	
Reverse leakage current	I_R	uA	-	-	10	$V_R=700 V$ at $T=+25^{\circ}C$ (normal cond.)	1
			-	-	100	$V_R=700 V$ at $T=+125^{\circ}C$	
Breakdown voltage	V_R	V	700	900	-	$I_R=100 \mu A$	1
Reverse recovery time	t_{rr}	ns	-	70	75	$dI/dt=250A/ms$, $V_R=30 V$ $I_R=15A$	2

Remark:
1-controlled parameter of chip diode (packageless);
2 - controlled parameter of inbuilt to the package diode

Design

Chip name	ADV 119AN5			ADV 120AN5		
Chip size, mm	3,1 $\pm 0,03$	x 3,1 $\pm 0,03$		4,7 $\pm 0,03$	x 2,92 $\pm 0,03$	
Chip thickness (H), μm	380 ± 15			380 ± 15		
The size of anode part, mm	3,1 $\pm 0,03$	x 3,1 $\pm 0,03$		4,7 $\pm 0,03$	x 2,92 $\pm 0,03$	
The size of cathode part, mm	2,7 $-0,01$	x 2,7 $-0,01$		4,46 $-0,01$	x 2,68 $0,01$	
Anode metallization	Au			Au		
Cathode metallization	Au			Au		
Glassification junction	polyimide			polyimide		