



SECTION A-A

Bondable Metalization

Active Area

Device Characterstics

Parameter	Condition	Min	Тур Л		Unit	
Diameter		- 500 -		μm		
Wavelength Range		400	-	1000	nm	
Peak Sensitivity		ı	800	ı	nm	
Voltage Breakdown Temp Coefficient	I _D = 10μΑ	-	0.5	-	V/°C	
Capacitance	V _{OP}	-	2	-	pF	
Rise Time	V _{OP}	-	300 -		psec	
Noise Current			fA/rt(Hz)			

Measured Characteristics

Parameter	Condition	Min	Тур	Max	Unit
Breakdown Voltage	I _D = 10μA	-	150	200	V
Peak Responsivity	V _{OP} ; 905nm	-	50	-	A/W
Dark Current	V_{OP}	-	1	3	nA

T_A = 25°C unless indicated otherwise

V_{OP} @ M = 100

Absolute Maximum Ratings

	_			
Parameter		Min	Max	Unit
Storage Temperature		-55	100	
Operating Temperature		-20	60	°C
Soldering (15	s)	-	260	
D	CW		0.200	mA
Reverse Current (Peak)	1s Pulse	-	260	
Famurand Commont (Acce)	CW		10	
Forward Current (Avg)	1s Pulse 50			
Max Total Power Dis	ssipation	-	60	mW

Drawn By: On: 7/20/2015 Drafting: Engineering: Ahr Luk Production: Management:

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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM [INCH]

STANDARD TOLERANCES - METRIC: ANGULAR: ±5° ONE PLACE DECIMAL: ±0.5 TWO PLACE DECIMAL: ±0.1

Epitaxial Silicon APD ø500μm Active Area High-Speed **Chip Layout**

SIZE	DWG. NO.	REV
В	C-SAH500HD	

REVISIONS

DATE

DESCRIPTION

REVISED BY

LASER COMPONENTS DG, INC.

SCALE: 70:1

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