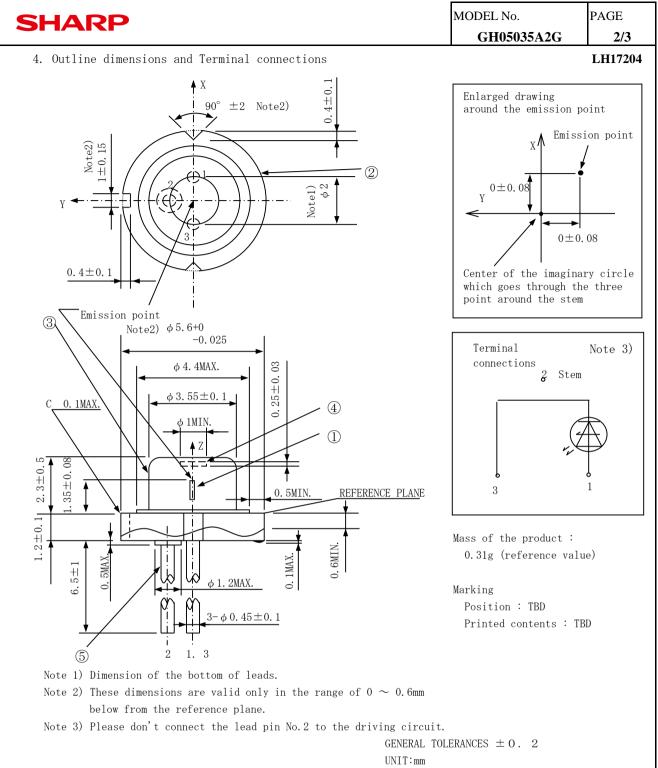
SHARP

<u>To;</u>					LH17204 23. 2017
		TARGET	TECHNICAL	LITERATURE	
	Product Typ	De	Laser Diode		-
	Model No.		GH05035A	2G	-
				ncluding the cover and ct us before issuing p	
		♦ This technic	al literature is subject to ch	ange without notice. 🔶	
			Lightin Electro	ment Dept., I g Business Unit nic Components And Dev CORPORATION	ices BU

HARP			SPEC.No. PAGE	LH17204 1/3
	Product name :	LASER DIODE		
	Model No. :	GH05035A2G		
	sheets include materials protector reat cares and do not reproduce			
described in the spec Sharp assumes no res	rp product, please observe the a ification sheets, as well as the p ponsibility for any damages resu er conditions and instructions fo	recautions mentioned below ulting from use of the produ	7. ct which does not	comply with absolute
or instruction man (2) This Sharp produc • Computers • (• Tooling maching If the use of the S	ue or instruction manual based of uals after assembling Sharp pro- t is designed for use in the follo DA equipment • Telecommunic nes • Audio visual equipment • bharp product in the above appli observe the precautions given in	ducts in customer's products owing application areas ; ation equipment (Terminal) • Home appliances cation areas is for equipment	 at the responsibi Measuring equals Measuring in paragra 	lity of customer.
system and equipn in responsibility of • Transportation	ures, such as fail-safe design an nent, should be taken to ensure r customer which demands high control and safety equipment (a • Gas leakage sensor breakers uipment	reliability and safety when S reliability and safety in fun ircraft, train, automobile etc	Sharp product is us ction and precisio	sed for equipment
Please do not use t precision, such as • Space equipme	nt • Telecommunication equipr	h require extremely high rel nent (for trunk lines)		
•	control equipment • Medical ea l consult with a Sharp sales repr agraphs.		uestion regarding	interpretation of
3. Disclaimer The warranty period f During the period, if	or Sharp product is one (1) year here are any products problem, h parties will discuss to cope wi	Sharp will repair (if applica		
with by Sharp, provid	uct after the above one (1) year ed that both parties shall discuss above scope of warranty.			
	ed herein is only for Sharp product sharp product malfunction or the start of the s		ed by or delivered	to customer.
 (1) storage keep trou (2) intentional act, ne (3) equipment which (4) disassembling, re (5) installation problematic 		narketing channel. Ig. o or mounted in. lucts.	ures thereof which	h are caused by:
(7) external factors (a(8) special environme(9) phenomenon white	er disaster (natural disaster, fire, abnormal voltage, abnormal elec- ent (factory, coastal areas, hotsp ch cannot be foreseen based on acluded in the product specification	ctromagnetic wave, fire, etc. pring area, etc.) the practical technologies at		nent.
4. Please contact and c	onsult with a Sharp sales repres	entative for any questions a	bout Sharp produc	et.



		UNII.mm		
No.	Component	Material	Finish	
1	Laser Diode Chip	InAlGaN	-	
2	Stem	Fe/Cu	Gold-plated	
3	Cap	45Alloy	Nickel+Pd plated	
4	Window glass	Borosilicated glass	-	
5	Lead pins	Kovar	Gold-plated	



5. Ratings and characteristics

LH17204

Absolute Maxi		(Tc=25°C(Note 1))			
Param	Symbol	Ratings	unit mW		
Optical power output(CW)) (Note 2)	Po 35			
Reverse voltage	Laser diode	Vrl	2	V	
Operatings temperature(case temp.)		Top(c)	-10~+60	°C	
Storage temperature(case	Tstg	-40~+85	°C		

(Note 1) Tc :Case temperature

(Note 2)CW :Continuous Wave Operation

Electro-optical Characteristics(Note 1) $(1 = 25 C)$							
Parameter		Symbol	Conditions	min	typ	max	unit
Threshold current		Ith	-	-	70	-	mA
Operating current		Iop	-	-	125	-	mA
Operating voltage		Vop		-	6.0	-	V
Wavelength		λp		-	505	-	nm
Radiation Charcter- istics	Angle (Note 2) (Note 3)	θ //	Po=30mW	-	8.5	-	o
		$\theta \perp$		-	23.0	-	0
Emission	Angle (Note 3)	Δθ //		-3	0	3	o
point accuracy		$\Delta heta ot$		-3	0	3	o
Differential efficiecy		ηd	20mW I(30mW)-I(10mW)	-	0.5	-	mW/mA

Electro-optical Characteristics(Note 1) $(Tc=25^{\circ}C)$

(Note 1) Initial value, Continuous Wave Operation.

(Note 2) Angle of 50% peak intensity.(Full angle at half-maximum)

(Note 3) Paralel to the junction plane.(X-Z plane)

Perpendicular to the junction plane.(Y-Z plane)

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