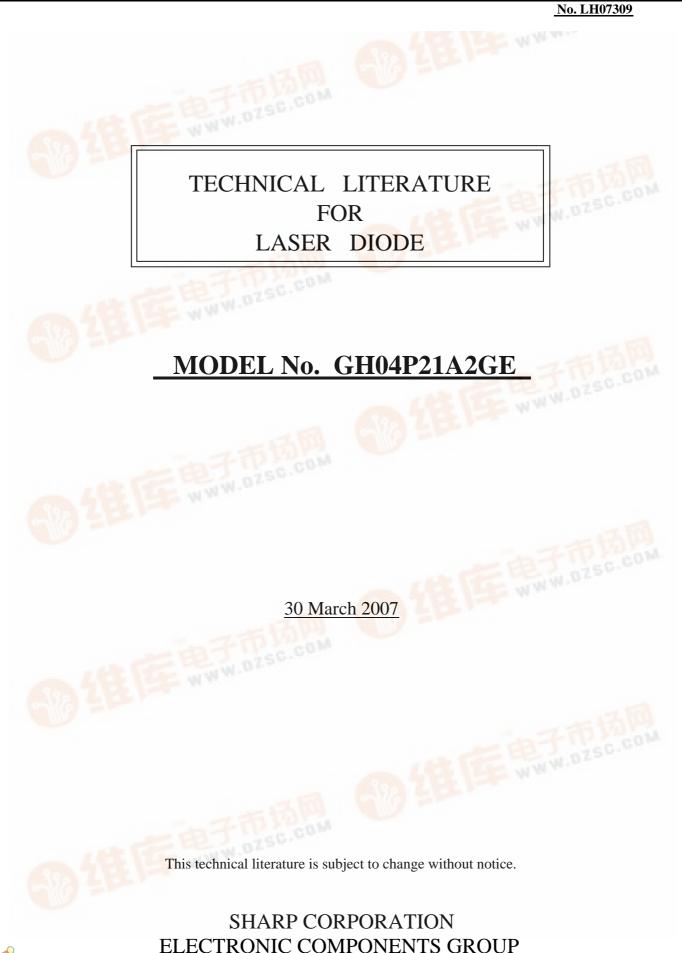
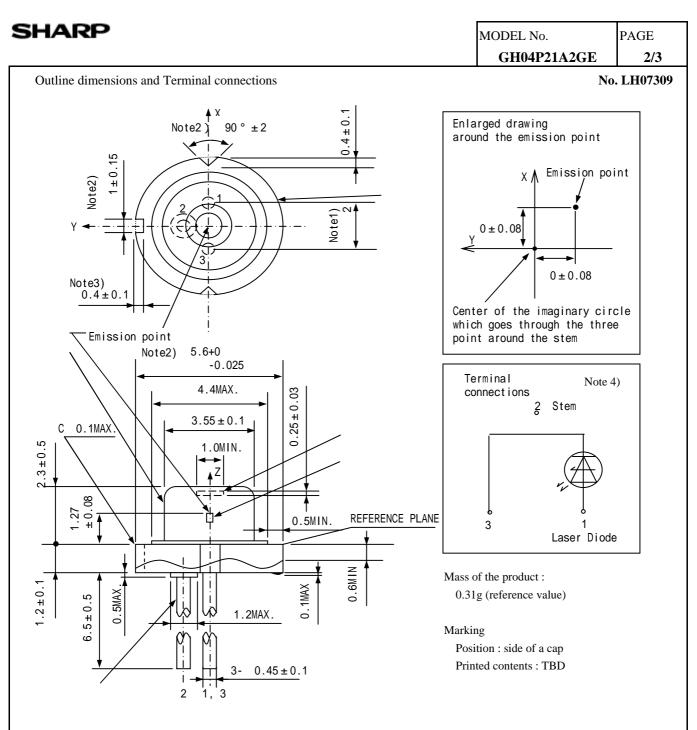
查询GH04P21A2GE供应商





			SPEC.No. PAGE	No. LH07309 1/3
	Product name :	LASER DIODE		
	Model No. :	GH04P21A2GE		
	on sheets include materials prop produce or cause anyone to repre			ion ("Sharp").
in these specifica	product, please observe the abs tion sheets, as well as the preca	olute maximum ratings and t autions mentioned below. Sha	he instructions f arp assumes no r	responsibility
in these specification for any damage r		olute maximum ratings and t autions mentioned below. Sha t which does not comply wit	he instructions f arp assumes no r h the absolute m	esponsibility aximum ratings
in these specifica for any damage r and the instruction (Precautions) (1) This pre- * OA * Tel- * Too If the us	tion sheets, as well as the preca esulting from use of the produc	olute maximum ratings and t autions mentioned below. Sha it which does not comply wit on sheets, and the precaution e following application areas; quipment * Home appliance erminal) * Measuring equip	he instructions f arp assumes no r h the absolute m is mentioned below ce pment nent listed in par	responsibility aaximum ratings ow.
in these specifica for any damage r and the instruction (Precautions) (1) This pro- * OA * Tel- * Too If the u: (2) or (1) (2) Approp the safe and safe safety i * Tra * Tra	ition sheets, as well as the preca esulting from use of the product ons included in these specification oducts is designed for use in the equipment * Audio visual ec- ecommunication equipment (Te- oling machines * Computers se of the product in the above ap	olute maximum ratings and t autions mentioned below. Sha it which does not comply wit on sheets, and the precaution e following application areas; quipment * Home appliance erminal) * Measuring equip pplication areas is for equipm e precautions given in those re- e design and redundant design and equipment, should be tal r equipment which demands is ; quipment (aircraft, train, auto	he instructions f arp assumes no r h the absolute m is mentioned belows ce pment nent listed in par espective paragr n considering ken to ensure rel high reliability a	responsibility laximum ratings ow. ragraphs aphs. iability and
in these specifica for any damage r and the instruction (Precautions) (1) This pre- * OA * Tel- * Too If the u: (2) or (1 (2) Approp the safe and safe safety i * Tra * Oth (3) Please of and safe * Spa	tion sheets, as well as the preca esulting from use of the product ons included in these specification oducts is designed for use in the equipment * Audio visual ec- ecommunication equipment (Te- oling machines * Computers se of the product in the above ap 3), please be sure to observe the riate measures, such as fail-safe ty design of the overall system ety when this product is used for n function and precision, such a nsportation control and safety e ffic signals * Gas leakage ser	olute maximum ratings and t autions mentioned below. Sha it which does not comply wit on sheets, and the precaution e following application areas; quipment * Home appliance erminal) * Measuring equip pplication areas is for equipment precautions given in those re- e design and redundant design and equipment, should be tall or equipment which demands is; quipment (aircraft, train, auto nsor breakers * Rescue and poment which require extreme ich as; hication equipment (for trunk	he instructions f arp assumes no r h the absolute m is mentioned bel- se pment hent listed in par espective paragr n considering ken to ensure rel high reliability a omobile etc.) d security equipr	responsibility laximum ratings ow.
in these specifica for any damage r and the instruction (Precautions) (1) This pro- * OA * Tel- * Too If the us (2) or (2) (2) Approp the safe and safe safety i * Tra * Oth (3) Please of and safe * Spa * Nuc (4) Please of	tion sheets, as well as the preca esulting from use of the product ons included in these specification oducts is designed for use in the equipment * Audio visual ec- ecommunication equipment (Te- oling machines * Computers se of the product in the above ap 3), please be sure to observe the riate measures, such as fail-safe ty design of the overall system ety when this product is used for n function and precision, such a nsportation control and safety e ffic signals * Gas leakage ser er safety equipment do not use this product for equip- ety in function and precision, such a relecommunication, such a relecommunication a relecommunication a relecommunication a relecommunication a released a released a relecommunication a relevant a relecommunication a relecommunication a relevant a re	olute maximum ratings and t nutions mentioned below. Sha it which does not comply wit on sheets, and the precaution e following application areas; quipment * Home appliance erminal) * Measuring equip pplication areas is for equipment precautions given in those re- e design and redundant design and equipment, should be tal r equipment which demands is; quipment (aircraft, train, auton asor breakers * Rescue and poment which require extreme tach as; nication equipment (for trunk * Medical equipment o sales representative if there	he instructions f arp assumes no r h the absolute m is mentioned belows ce pment nent listed in par espective paragr n considering ken to ensure rel high reliability a omobile etc.) d security equipr	responsibility aximum ratings ow.



Note 1) Dimension of the bottom of leads.

Note 2) These dimensions are valid only in the range of 0 ~ 0.6mm below from the reference plane.

Note 3) These dimensions are defined from the imaginary circle which goes through the three points around the stem to the bottom of cut off parts.

Note 4) Please don't connect the lead pin No.2 to the driving circuit.

GENERAL TOLERANCES ± 0 . 2

			UNIT:mm
No.	Component	Material	Finish
	Laser Diode Chip	InAlGaN	-
	Stem	Fe,Cu	Gold-plated
	Cap	Kovar	Nickel-plated
	Window glass	Borosilicated glass	-
	Lead pins	Kovar	Gold-plated

SHAR	P						MODEL No.	21A2GE	PAGE 3/3
							011041		. LH07309
Ratings	and charact	teristics						110	
	Absolute I	Maximum	Ratings			(Tc=	=25 (Note 1))	
Parameter			Syn	nbol	Ratings unit		unit		
Optical power output(CW) (Note 2)			P	0	105		mW		
Optical power output(Pulse) (Note 3)		ote 3)	P	р		210	mW		
Reverse voltage		Laser diode	V	rl		2	V		
Operatings temperature		CW (Note 2)	Тор	c(c)	-1	0 ~ +70			
(case temp.)		Pulse (Note3)	Тор	p(c)	-1	0 ~ +70			
Storage temperature(case temp.)			Ts	stg	-40 ~ +85				
Soldering temperature (Note 4)			Ts	sld		300			
Electr	(Note 4) Sc	oldering po	Operation(Pulse Wi sition is 1.6mm apar stics (Note 1)		ottom e		he case.(Imme	rsion time: 3	s)
Parar	neter	Symbol	Conditions	min	typ	max	unit		
Threshold	current	lth	-	-	40	60	mA		
Operating	current	Іор		-	110	150	mA		
Operating	voltage	Vop		-	5.4	6.5	V		
Wavelengt	h	р	Po=105mW	400	406	415	nm		
Radiation	Angle (Note 3) (Note 4)			6	9	12	o		
Characte- ristics				16	19	22	o		
1151105	Angle					I			
Radiation				5.5	8.5	11.5	o		
Radiation Characte-	(Note 3) (Note 4)		Po=5mW	5.5 16	8.5 19	11.5 22	0 0		
Radiation Characte- ristics Emission	(Note 3) (Note 4)		Po=5mW						
Radiation Characte- ristics Emission point	(Note 3)		Po=5mW	16	19	22	o		
Radiation Characte- ristics Emission point accuracy	(Note 3) (Note 4) Angle (Note 4)	d	Po=5mW 95mW I(105mW)-I(10mW)	16 -2.5	19 0	22 2.5	0 0		
Radiation Characte- ristics Emission point accuracy Differentia Kink (Note 5, N	(Note 3) (Note 4) Angle (Note 4) I efficiecy	d K-LI	95mW	16 -2.5 -3	19 0 0	22 2.5 3	0 0 0		

(Note 5) Pulse : Pulse Operation(Pulse Width 50ns Duty: 50%)

