

#### PARA LIGHT ELECTRONICS CO., LTD.

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### DATA SHEET

# PART NO.: LH34D201C-HTS

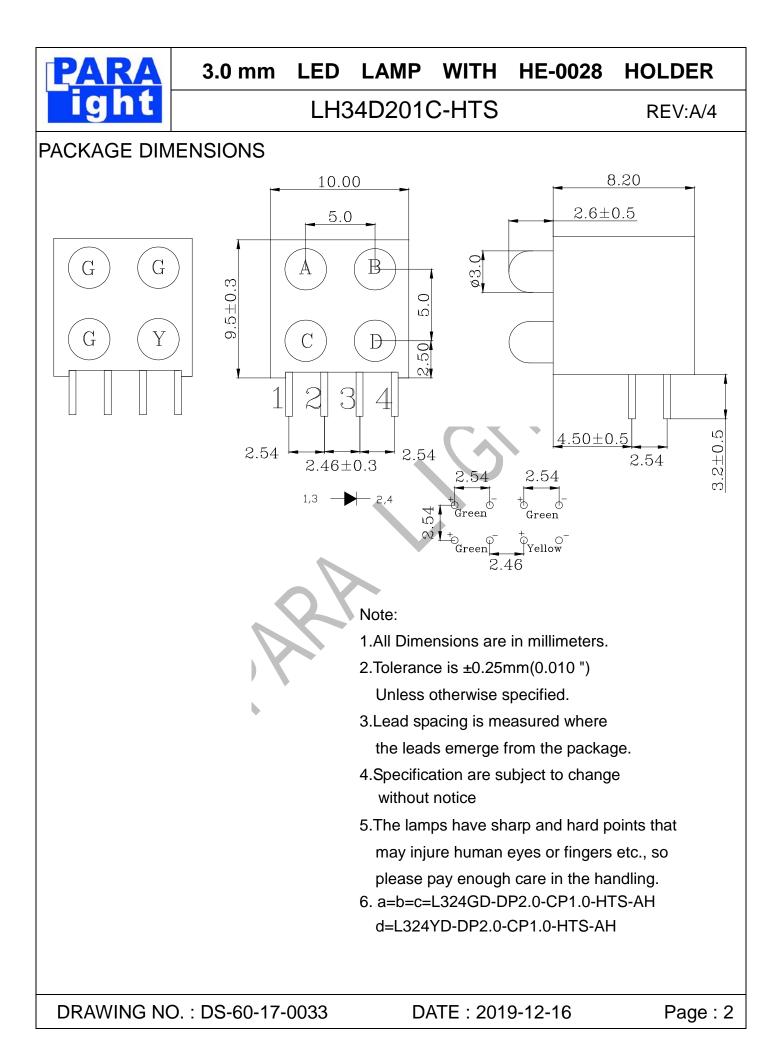
A/4

CUSTOMER'S APPROVAL :

DCC :

DRAWING NO. : DS-60-17-0033

DATE : 2019-12-16



PAR	
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#### LH34D201C-HTS

REV:A/4

#### FEATURES

- \* 3.0mm DIA LED LAMP
- \* LOW POWER CONSUMPTION.
- \* I.C. COMPATIBLE.
- \* LONG LIFE SOLID STATE RELIABILITY.
- \* PB FREE PRODUCTS(Compliant with EU's RoHS.)

#### CHIP MATERIALS

- \* Dice Material : GaAlInP/GaAs
- \* Light Color : Yellow
- \* Lens Color : Yellow Diffused

#### ABSOLUTE MAXIMUM RATING : ( $Ta = 25^{\circ}C$ )

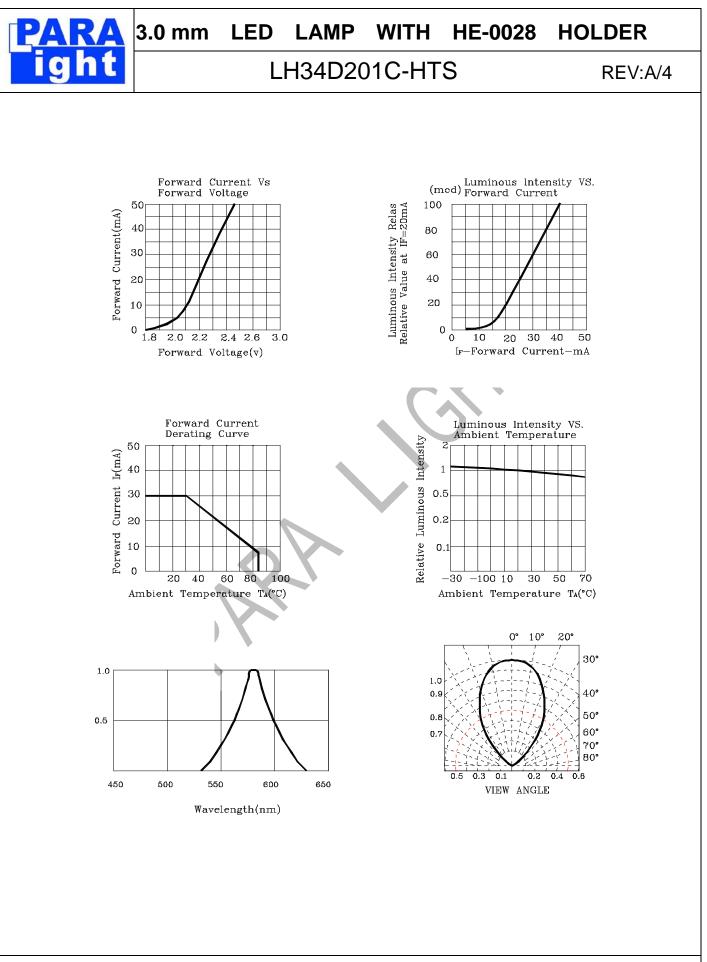
SYMBOL	PARAMETER	Yellow	UNIT
Pad	Power Dissipation	85	mW
VR	Reverse Voltage	5	V
lF	Average Forward Current(Duty=0.1,1KHZ)	30	mA
IPF	Peak Forward Current Per Chip(Duty=0.1,1KHz)	120	mA
-	Derating Linear From 25°C	0.40	mA/°C
Topr	Operating Temperature Range	-40°C to 85°0	C
Tstg	Storage Temperature Range	-40°C to 85°0	C

#### ELECTRO-OPTICAL CHARACTERISTICS : (Ta = $25^{\circ}$ C)

SYMBOL	DESCRIPTION	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
VF	Forward Voltage	IF=20mA	1.7	2.1	2.6	V
IR	Reverse Current	VR=5V			100	$\mu  A$
λD	Dominant Wavelength	IF=20mA	585	589	595	nm
Δλ	Spectral Line Half-Width	IF=20mA		30		nm
201/2	Half Intensity Angle	IF=20mA		60		deg
I۷	Luminous Intensity	IF=20mA	10	20	50	mcd

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ſ	PAR	A 3.0 mm	ו LED	LAMP	WITH	HE-	0028 I	HOLDI	ER			
	igh	t	LH34D201C-HTS REV:A/4									
FEATURES * 3.0mm DIA LED LAMP * LOW POWER CONSUMPTION. * I.C. COMPATIBLE. * LONG LIFE SOLID STATE RELIABILITY. * PB FREE PRODUCTS(Compliant with EU's RoHS.) CHIP MATERIALS * Dice Material : GaAIInP/GaAs * Light Color : Yellow Green * Lens Color : Green Diffused ABSOLUTE MAXIMUM RATING : ( Ta = 25°C )												
	SYMBOL		PARAM		<u>200)</u>	Yell	low Green		UNIT			
	Pad	Power Dissip	ation				78		mW			
	VR	Reverse Volta	ige				5		V			
	lF	Average Forv	ard Currer	nt(Duty=0.1,1	KHZ)		30		mA			
	IPF	Peak Forward	Current Per (	Chip(Duty=0.1,1	1KHz)		120		mA			
	-	Derating Line	ar From 25	5°C			0.40		mA/°C			
	Topr	Operating Ter	nperature	Range			-40°C to	o 85°C				
	Tstg	Storage Temp	erature Ra	ange			-40°C to	o 85°C				
ELE	ECTRO-	OPTICAL CH	IARACTE	ERISTICS :	( Ta =	25°C)						
Г	SYMBOL	DESCRIF		TEST COND	`	MIN.	TYP.	MAX.	UNIT			
	VF	Forward Volta	ge	IF=20m	A	1.7	2.0 2.6		V			
	lr	Reverse Curre	erse Current VR=5V 100						μΑ			
	λD	Dominant Way	nant Wavelength IF=20mA 565 570 575 r						nm			
	Δλ	Spectral Line I	Half-Width	IF=20m	A		30		nm			
	201/2	Half Intensity A	ngle	IF=20m	A		60		deg			

IF=20mA

Luminous Intensity

Iv

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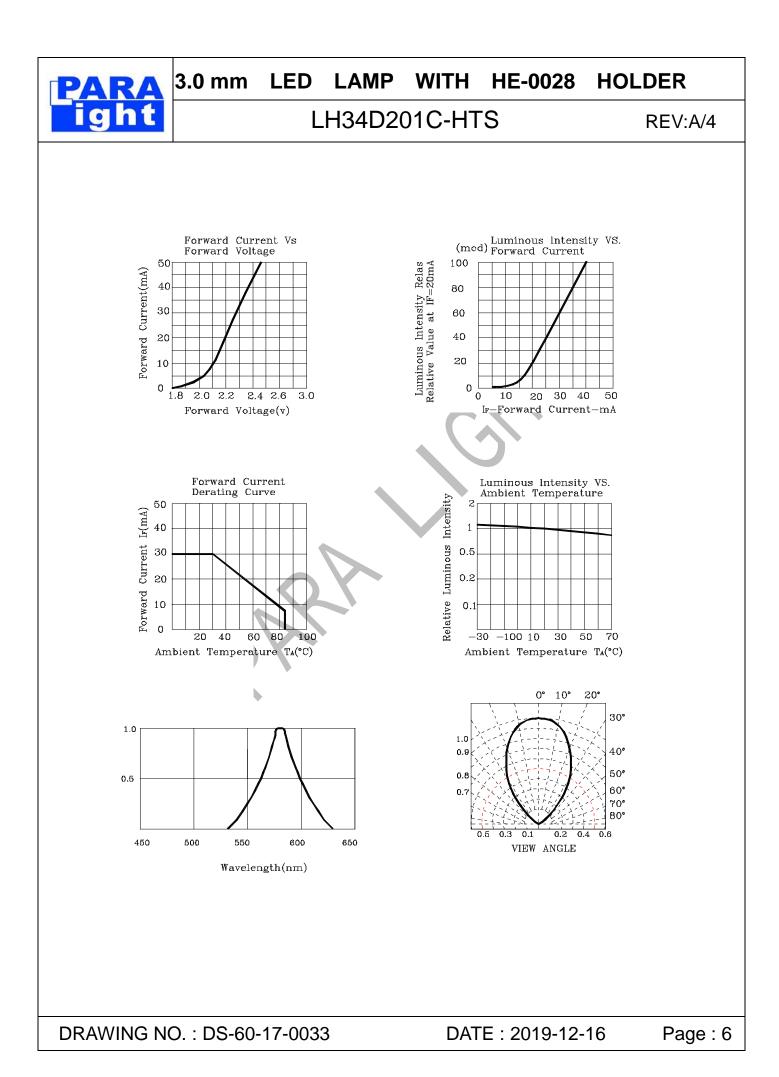
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20

50

Page : 5

mcd





#### LH34D201C-HTS

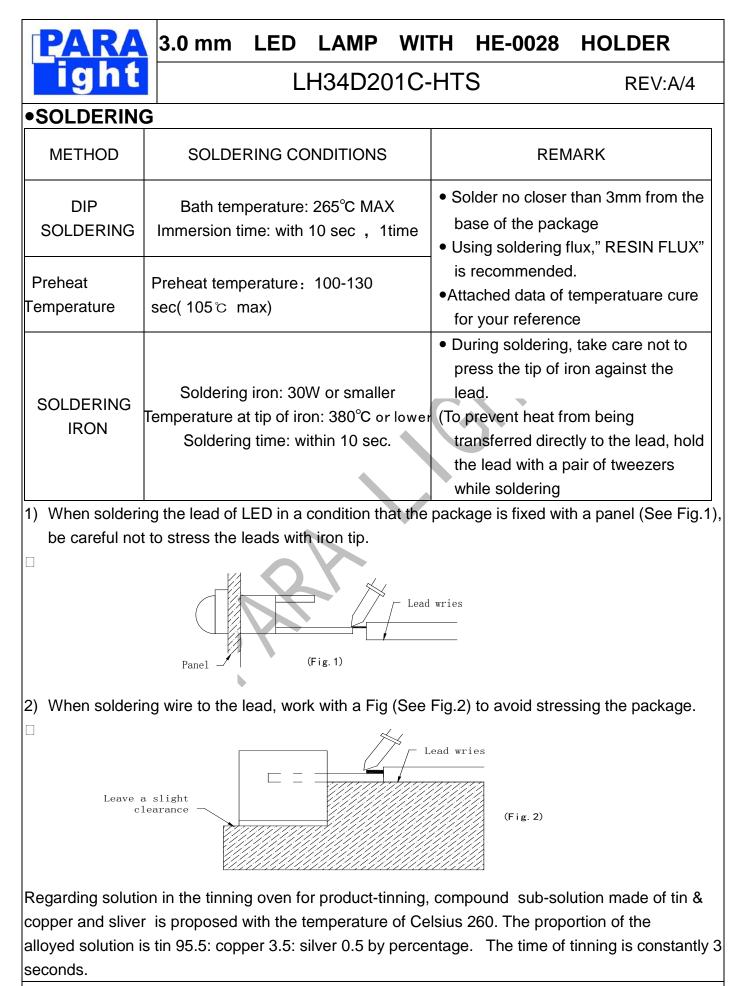
REV:A/4

#### Label Explanation

PARA 光鼎电子股分有	
PARA NO. :	
LOT NO. :	INSPECTED
BIN :	
Q'TY: PCS	_
N.W : g	
PARA NO.: Refer to p13 LOT NO.: L L M 7 B 001	<i>(G)</i> .
ABCDEF	
C M: For series number R:Reword DYear EMonth FSPEC	

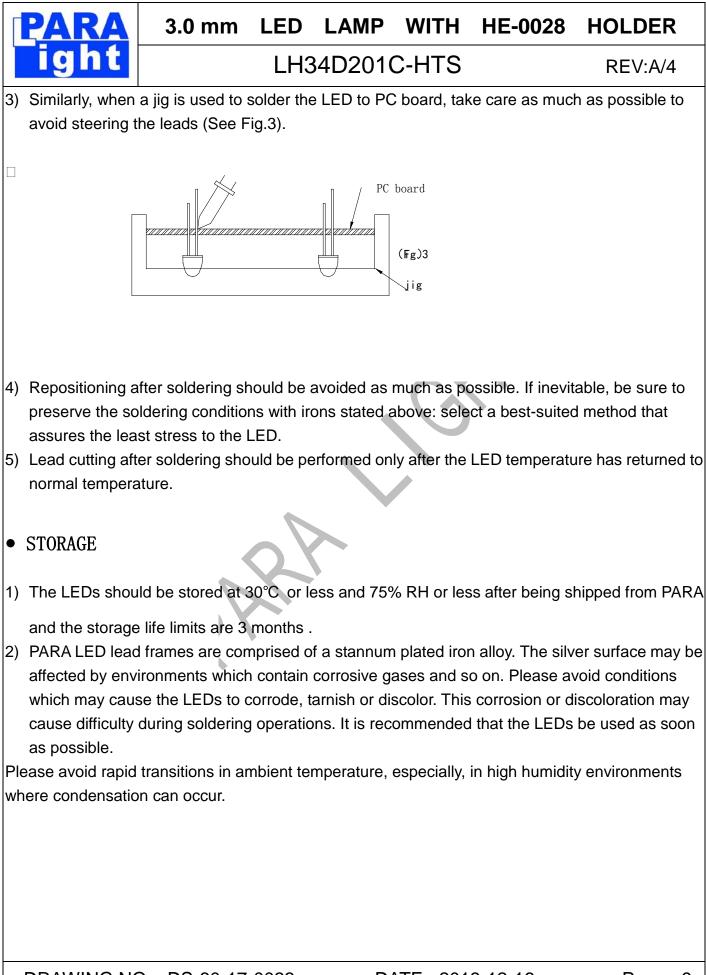
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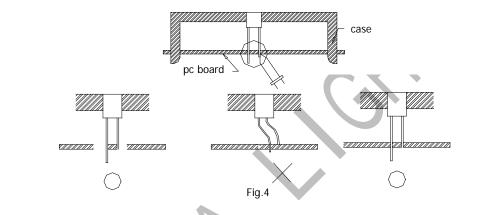


#### LH34D201C-HTS

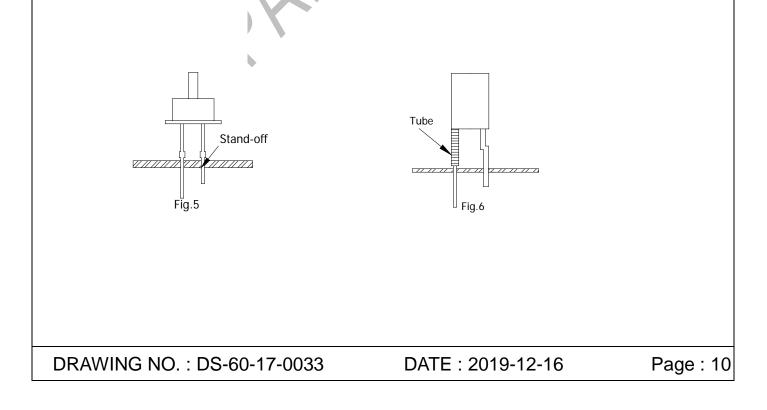
REV:A/4

#### •LED MOUNTING METHOD

3) When mounting the LED by using a case, as shown Fig.4, ensure that the mounting holds on the PC board match the pitch of the leads correctly-tolerance of dimensions of the respective components including the LED should be taken into account especially when designing the case, PC board, etc. to prevent pitch misalignment between the leads and board holes, the diameter of the board holes should be slightly larger than the size of the lead. Alternatively, the shape of the holes should be made oval. (See Fig.4)



4) Use LEDs with stand-off (Fig.5) or the tube or spacer made of resin (Fig.6) to position the LEDs.



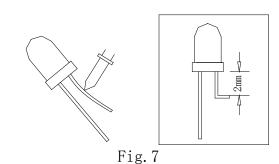


#### LH34D201C-HTS

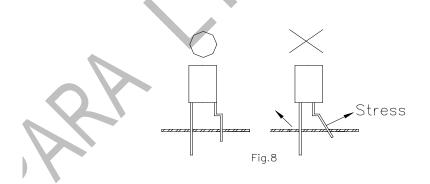
REV:A/4

#### •FORMED LEAD

1) The lead should be bent at a point located at least 2mm away from the package. Bending should be performed with base fixed means of a jig or pliers (Fig.7)



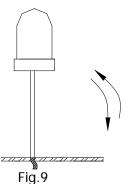
- 2) Forming lead should be carried our prior to soldering and never during or after soldering.
- Form the lead to ensure alignment between the leads and the hole on board, so that stress against the LED is prevented. (Fig.8)



#### •LEAD STRENGTH

1) Bend strength

Do not bend the lead more than twice. (Fig.9)



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Tensile strength (@Room Temperature)
If the force is 1kg or less, there will be no problem. (Fig.10)

## ок! IKg Fig.10

#### • HEAT GENERATION

1) Thermal design of the end product is of paramount importance. Please consider the heat generation of the LED when making the system design. The coefficient of temperature increase per input electric power is affected by the thermal resistance of the circuit board and density of LED placement on the board, as well as other components. It is necessary to avoid intense heat generation and operate within the maximum ratings given in this specification.

The operating current should be decided after considering the ambient maximum temperature of LEDs.

#### •CHEMICAL RESISTANCE

- 1) Avoid exposure to chemicals as it may attack the LED surface and cause discoloration.
- 2) When washing is required, refer to the following table for the proper chemical to be sued. (Immersion time: within 3 minutes at room temperature.)

SOLVENT	ADAPTABILITY				
Freon TE	$\odot$				
Chlorothene	$\times$				
Isopropyl Alcohol	$\odot$				
Thinner	$\times$				
Acetone	$\times$				
Trichloroethylene	$\times$				
🕥 Lleable 🗡 De not use					

NOTE: Influences of ultrasonic cleaning of the LED resin body differ depending on such factors as the oscillator output, size of the PC board and the way in which the LED is mounted. Therefore, ultrasonic cleaning should only be performed after confirming there is no problem by conducting a test under practical.

 $\odot$ --Usable  $\, imes\,$  --Do not use.

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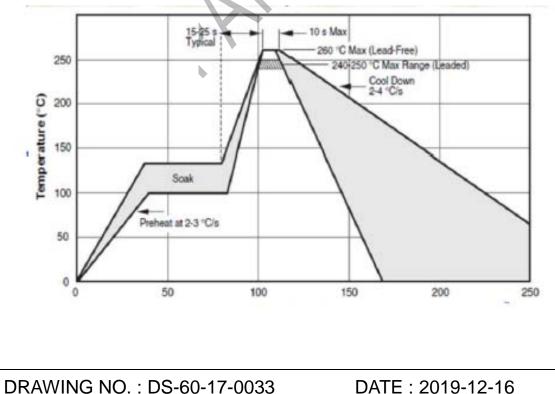
#### LED HOLDER 3.0 mm LAMP WITH **HE-0028**

#### LH34D201C-HTS

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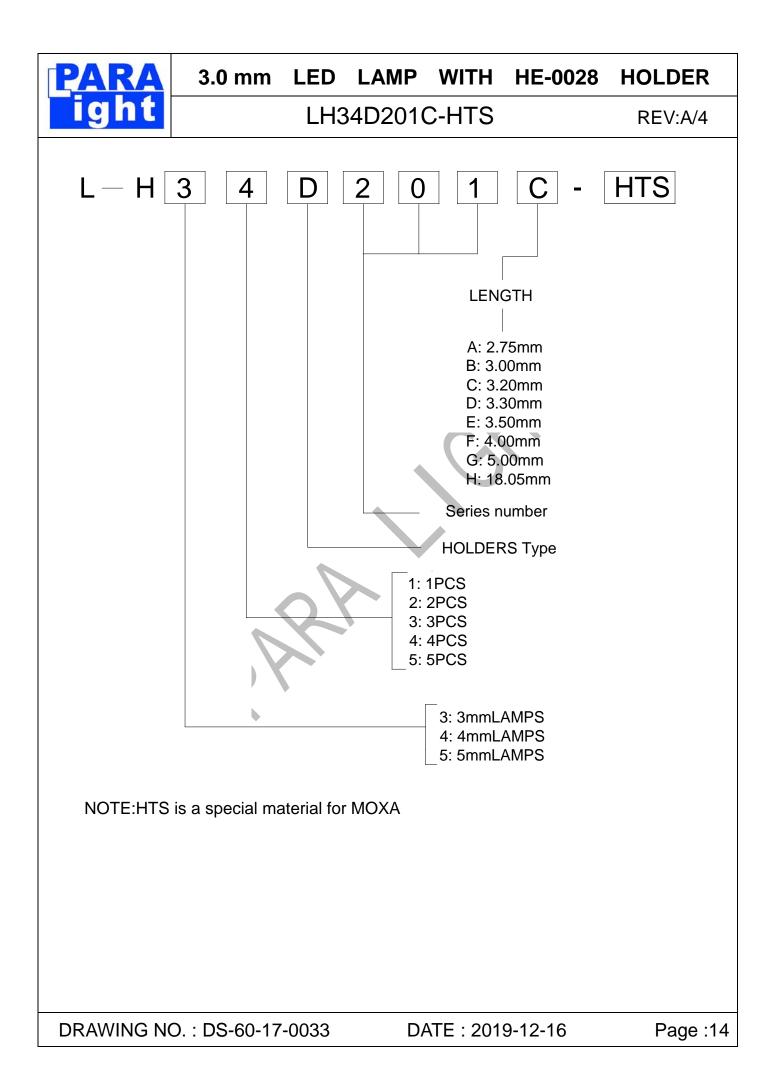
#### OTHERS

- 1) Care must be taken to ensure that the reverse voltage will not exceed the absolute maximum rating when using the LEDs with matrix drive.
- 2) Flashing lights have been known to cause discomfort in people; you can prevent this by taking precautions during use. Also, people should be cautious when using equipment that has had LEDs incorporated into it.
- 3) The LEDs described in this brochure are intended to be used for ordinary electronic equipment (such as office equipment, communications equipment, measurement instruments and household appliances). Consult PARA's sales staff in advance for information on the applications in which exceptional quality and reliability are required, particularly when the failure or malfunction of the LEDs may directly jeopardize life or health (such as for airplanes, aerospace, submersible repeaters, nuclear reactor control systems, automobiles, traffic control equipment, life support systems and safety devices).
- 4) User shall not reverse engineer by disassembling or analysis of the LEDs without having prior written consent from PARA. When defective LEDs are found, the User shall inform PARA directly before disassembling or analysis.
- The formal specifications must be exchanged and signed by both parties before large volume 5) purchase begins.
- 6) The appearance and specifications of the product may be modified for improvement without notice.



Recommended Wave Soldering Profile 7)

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#### LH34D201C-HTS

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#### Bin Code List

Y							
DominantWavelength( $\lambda$ D), Unit:nm@20mA							
Bin Code	Bin Code Min Max						
Y3	584	586					
Y4	586	588					
Y5	588	590					
Y6	590	592					

Tolerance of each bin are  $\pm 1$  nm

Γ	G						
-	0						
	Domir	antWavelengt	t <b>h(</b> λD),				
	Unit:nm@20□A						
	Bin Code	Min	Max				
	G16	566	568				
	G17	568	570				
	G18	570	572				
	G19	572	574				
	G20	574	576				

#### Tolerance of each bin are $\pm\,1nm$

	G					
Lum	Luminous Intensity(IV),					
U	nit:mcd@20	MMA				
Bin Code	Min	Max				
G	7.70	10.8				
Н	10.8	15.1				
I	15.1	21.1				
J	21.1	29.5				
K	29.5	41.3				
L	L 41.3 57.8					
Т	•	•				

Tolerance of each bin are±15%

Y							
Lum	inous Intens	ity(IV),					
U	nit:mcd@20	MMA					
Bin Code	Min	Max					
G	7.70	10.8					
Н	10.8	15.1					
I	15.1	21.1					
J	21.1	29.5					
К	29.5	41.3					
L	41.3	57.8					

olerance of each bin are±15%

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#### LH34D201C-HTS

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LH 34D 201C -HTS p a ckag e rule N ote:

- 1 、Each p la te o f 520 PCS
- 2 、Within e a ch sma ll b o x 5 p la te , q u a n tity is 2600 PCS



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**LEONA** UL Acquisition Status of a typical Grade

2.2		Mirimum	Fisme		RTI Mach	anical	Hot	High	High	Arc	IEC	2	2013	Minimum	Flame		RTI Mect	nanical
Mti Deg	Color	lhickness	Class	Bectrical	With	Without	· wire	emp	voll track	resistance	track	f Mu Osa	Color	1hickness	Class	Bectrical	With	Withou
		(cnm)	(UL94)		Impact	impad	lgn.	ign.	rate	(D495)	(CTI)	Cog.		(11911)	(U1.94)		Impaci	Impact
10000		0.70	V-2	105	75	85	4	Q	-		-	90G50	All	1.5	HB	65	65	65
13009 1300F	1 41	1.5	V-2	105	75	85	4	0	1	$\rightarrow$		30030		3.0	HB	65	65	65
13006		9.0	V-2	105	75	85	Э	0	0	6	a	00000		1.5	HB	65	55	65
		0.75	V-2	120	95	90	4	0	-		-	93G33	All	3.0	HB	65	55	65
13025	All	1.5	V-2	120	95	80	3	0			1000	1		0.75	HB	125	90	120
	1996-1995	3.0	V-2	120	<b>9</b> 5	100	3	0	0	5	a	54G33	All	1.5	HB	125	90	120
		0.71	V-2	130	105	105	4	0	-	-	-		100	3.0	HB	125	BO	120
14025	1 411	1.5	V-2	130	105	105	3	0	<u></u>	-			0.00		12			
1402F		3.0	V-2	130	105	105	3	0	0	6	1	54G43	All	0.80	HB	65	55	65
	-	0.69	V-2	120	95	100	4	0		-	-	01010	<b>1</b> 14	4.44		0.5		00
14025	H AU	1.5	V-2	120	95	100	3	0		-	_	14 1 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.75	HB	125	105	105
HULD		3.0	V-2	120	95	100	2	0	0	6	1	1330G	ΠA	1.5	HB	125	105	115
2	-	0.75	HB	125	110	115	4	0	-				<b>C</b> 4	3.0	HB	125	105	120
13G1	All	1.5	HB	125	110	120	3	0		-	_	127-11-12990-03 127-11-12-12-12-12-12-12-12-12-12-12-12-12-		0.71	HB	105	75	75
19019	-	3.0	HB	125	110	120	2	0	0	5	0	648 series		1.5		105	75	75
	-	0.75	HB		1000	No.	4	0	-		-	MBOOT	All	1000 7	HB	105	75	-
1000		2000	HB	125	110	110	1 22	0.200			-		-	3.0	HB		10000	80
13G2	i All	1.5	25.0637	125	110	110	3	0		-			-	0.71	V-0	105	65	65
	-	3.0	HG	125	110	120	2	0	1	5	0.	FR200	All	1.5	V-0	105	65	65
		0.75	HE	125	105	110	3	a	-		-			3.0	٧.0	105	65	65
13000	All	1.5	HB	125	105	110	3	0		-		2017204-21-20177		0.38	V-0 V-0	65 130	65 90	65 105
	-	3.0	HB	125	110	120	3	0	1	5	0	FR370	All	1.5	V-0	130	105	105
	· · · · · · · · · · · · · · · · · · ·	0.75	ΗB	110	110	115	4	0	-	—	-			3.0	¥-0	130	105	105
13G4:	Alf A	1.5	HB	110	110	120	2	٥	-		-			0.70	V-0	65	65	65
		- 3.0	HB	110	110	120	3	0	1	5	0	FR561	All	0.75	V-0	130	90 105	105
				-										3.0	V-0	130	105	105
14G1	AII	0.75	HB	65	<b>5</b> \$	65						1.		0.75	¥.0	105	105	105
												FG170	AII	1.5	V-O	105	105	105
		0.71	HB	120	90	110	4	٥		-	10 arrs			3.2	V-0	105	105	105
14020	A	1.5	HB	120	\$0	120	3	0				· · · · · ·		0.41	¥-0	65		65
		3.0	HB	120	100	125	0	0	1	6	1		NC	0.50	V-0	130	- 1	65
Marcales and	1	0.75	HB	65	65	65	з	Q		-	-	FG172		0.75	V-0	130	115	120
14G2		1.5	HB	140	125	140	3	Ð	_	_		2.2	All	1.5	V-0	130	115	120
14G33	3	3.0	HB	140	125	140	9	Ū	0	6	1			3.0 0.5	V-0 V-0	130	65	120
	-		-					33 3	-	-	-	1.1.1	NC	0.72	V-0	65	65	65
		0.75	HB	65	65	55	3	0		1		FG173	200	0.80	V-0	130	65	120
14G5	) All	1.5	HB	140	125	140	3	0				1.1.1	All	1.5	V-0	130	65	120
		9.0	HB	140	125	140	9	0	0	5	O	1.1	2012 X	9.0	V-O	190	65	120

•

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nical	Hot	High	High volt	Атс	IEC								
Without Impact	wire ign.	arc Ign.	arc track master		arc track make		arc track restan		arc track man		arc track 1996		track (CTI)
65	2	0	-	-	-								
65	0	0	Q	5	0								
65	3	0	1										
65	Û	0	¢	5	0								
120	З	0	1000		-								
		10 10 M	Sec.	202203	Control Control								
120	2	0			1.2. <u></u>								
120	۵	٥	1	6	1								
65	-	-2	-	-	-								
105	4	Q	-	-									
115	٩	٥	_	-									
120	0	0	5	5	٥								
76	4	0	2 <u>—</u> 31	- 2	·								
75	3	0	-	-									
BO	3	0	Q	Б	Ð								
65	3	0	_		_								
65	3	0			1999.99 Tours								
- CANCER		5 55	2.00		0.001								
65	2	Q	0	5	0								
65		-	2 <del></del>	-	22. <del>114</del>								
105	4	1			100 <del>171 1</del>								
105	3	0 0	-	- 1	-								
65	-	-		5	0								
105	4	1											
105	3	0		_	-12-								
105		0	D	5	0								
105	0	0	1000	-	1								
105	a	Þ		_	-								
105	0	0	1	6	э								
65	1000		1	-	_								
65	0	0	×	-	84								
120	0	o	1	-									
120	a	0	-	-	-								
120	g	0	1	6	2								
65	1	ō	×	<u> </u>	8-								
65	0	0	—		11.28 <del>.</del>								
120	0	0	_										
120	0	0	- S	-									
120	Ó	0	3	7	2								

QMRZ22nponent - Plastics						E482
ASAHI KASEI CHEMIC	ALS CORP					
HIBIYA-MITSUI BLDG, 1-2 YU	JRAKUCHO 1-CHOME, C	HIYODA-KU, TOKYO 100-00	06 JP			
1300S, 1300F						
Polyamide 66 (PA66), "L	eona", furnished as i	pellets				
	Min Thk	Flame				TI RTI
Color	(mm)	Class	HWI	HAI		np Str
ALL	0.71	V-2	4	0		5 85
	1.5	V-2	4	0		5 85
	3.0	V-2	3	0	105 7	5 85
Compa	arative Tracking Index (C	CTI): 0			Dimensional Stabilit	y (%): 0
High-Voltage	TR): 0	High Volt, Low Current Arc Resis (D495): 6				
riigii-voitage						
UL94 small-scale test data do	Dielectric Strength (kV/m			all-scale test data is		ing the flammability red by ULI.
UL94 small-scale test data do	Dielectric Strength (kV/m	nm): _ aterials, furnishings and related o	appliances, when	all-scale test data is e the acceptability o	intended solely for determin	ing the flammability
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UL94 small-scale test data do plastic materials u Report Date: 7/11/1972	Dielectric Strength (kV/m es not pertain to building m sed in the components and	im): - aterials, furnishings and related o parts of end-product devices and	appliances, when	all-scale test data is e the acceptability o	intended solely for determin f the combination is determin	ing the flammability and by ULI. Compor
UL94 small-scale test data do plastic materials u Report Date: 7/11/1972	Dielectric Strength (kV/m es not pertain to building m sed in the components and	im): - aterials, furnishings and related o parts of end-product devices and	appliances, when	all-scale test data is e the acceptability o	intended solely for determin f the combination is determin Thickness	ing the flammability and by ULI. Compor
UL94 small-scale test data do plastic materials u Report Date: 7/11/1972 IEC and ISO Test	Dielectric Strength (kV/m es not pertain to building m sed in the components and	nm): - aterials, furnishings and related o parts of end-product devices and Underwriters L4	appliances, when	all-scale test data is a the acceptability o c® Units	intended solely for determin f the combination is determin	ing the flammability ved by ULI. Compor Plasti
UL94 small-scale test data do plastic materials u Report Date: 7/11/1972 IEC and ISO Test	Dielectric Strength (kV/m es not pertain to building m sed in the components and	nm): - aterials, furnishings and related o parts of end-product devices and Underwriters L4 Test Method	appliances, when	all-scale test data is a the acceptability o c®	intended solely for determin f the combination is determin Thickness Tested (mm)	ing the flammability ted by ULI. Compor Plasti Value
UL94 small-scale test data do plastic materials u Report Date: 7/11/1972 IEC and ISO Test Test Name	Dielectric Strength (kV/m es not pertain to building m sed in the components and	nm): - aterials, furnishings and related o parts of end-product devices and Underwriters L4 Test Method	appliances, when	all-scale test data is a the acceptability o c® Units	intended solely for determin f the combination is determin Thickness Tested (mm) 0.71	ing the flammability ted by ULI. Compor Plasti Value V-2 (ALL
( UL94 small-scale test data do plastic materials u	Dielectric Strength (KV/m les not pertain to building m sed in the components and st Methods	nm): - aterials, furnishings and related o parts of end-product devices and Underwriters L4 Test Method	appliances, when	all-scale test data is a the acceptability o c® Units	Thickness Tested (mm) 0.71 1.5	ing the flammability ted by ULI. Compor Plasti Value V-2 (ALL V-2 (ALL
UL94 small-scale test data do plastic materials u Report Date: 7/11/1972 IEC and ISO Test Test Name EC Flammability	Dielectric Strength (KV/m les not pertain to building m sed in the components and st Methods GWFI)	m): - aterials, furnishings and related o parts of end-product devices and Underwriters La Test Method IEC 60695-11-10	appliances, when	all-scale test data is a the acceptability o c® Units	Thickness Tested (mm) 0.71 1.5	ing the flammability ted by ULI. Compor Plasti Value V-2 (ALL V-2 (ALL
UL94 small-scale test data do plastic materials u Report Date: 7/11/1972 IEC and ISO Test Test Name EC Flammability Glow-Wire Flammability (1	Dielectric Strength (KV/m les not pertain to building m sed in the components and st Methods GWFI)	m): - aterials, furnishings and related o parts of end-product devices and Underwriters La Test Method IEC 60695-11-10	appliances, when	all-scale test data is a the acceptability o c® Units	Thickness Tested (mm) 0.71 1.5	ing the flammability ted by ULI. Compor Plasti Value V-2 (ALL V-2 (ALL
UL94 small-scale test data do plastic materials u Report Date: 7/11/1972 IEC and ISO Te: Test Name EC Flammability Glow-Wire Flammability ( Glow-Wire Ignition (GWIT)	Dielectric Strength (KV/m les not pertain to building m sed in the components and st Methods GWFI)	m): - aterials, furnishings and related o parts of end-product devices and Underwriters La Test Method IEC 60695-11-10 IEC 60695-2-12 IEC 60695-2-13	appliances, when	all-scale test data is a the acceptability o c® Units Class (color) C C	Thickness Tested (mm) 0.71 1.5	ing the flammability ted by ULI. Compor Plasti Value V-2 (ALL V-2 (ALL
UL94 small-scale test data do plastic materials u Report Date: 7/11/1972 IEC and ISO Te: Test Name EC Flammability Glow-Wire Flammability ( Glow-Wire Ignition (GWIT) EC Comparative Tracking	Dielectric Strength (KV/m les not pertain to building m sed in the components and st Methods GWFI) ) g Index	m): - aterials, furnishings and related o parts of end-product devices and Underwriters La Test Method IEC 60695-11-10 IEC 60695-2-12 IEC 60695-2-13 IEC 60112	appliances, when	all-scale test data is a the acceptability o c® Units Class (color) C C C C Volts (Max)	Thickness Tested (mm) 0.71 1.5	ing the flammability ted by ULI. Compor Plasti Value V-2 (ALL V-2 (ALL

#### 塑膠材料符合性保證書 **CERTIFICATE OF COMPLIANCE OF PLASTIC MATERIAL**

	供應商							
	VENDER 光鼎電子股位	分有限公司						
	料號	品名						
	PART NUMBER	PART DESCRIPTION 光鼎 holder 產品						
	數量/訂單號碼	出貨日期						
	QUANTITY/P.O. NO.	SHIPPING DATE						
	原料製造商							
	MATERIAL SUPPLIER	连云港光鼎电子有限公司						
	原料品名/型號/規格 MATERIAL DESCREPTION / MODEL SPEC	./ 光鼎holder產品						
	原料 UL 號碼	原料防火等級						
	MATERIAL UL FILE NUMBER	MATERIAL FLAMMABILITY CLASS						
	E48285	V-2						
供應商 1. 2.	替,本公司願負賠償之責。 FOR THIS P.O., IF THERE IS ANY DEVI RESPONSIBLE FOR THE COST INCUR							
2.	本批產品使用的回收料(次料)不超過 25% THE REPROCESSED MATERIAL USED IN THIS SHIPMENT DOES NOT EXCEED 25%							
	供應商簽章及蓋公司章 VENDER SIGNATURE & COMPA	<b>本星侯</b> 谷股鼎 黑馬						

VENDER SIGNATURE & COMPANY SEAL

Form Number PD.208