

51E D ■ 8180798 0007310 343 ■ SRPJ

LT4083□ Series LED Panel Display with PWB

T-41-3)

Model No.

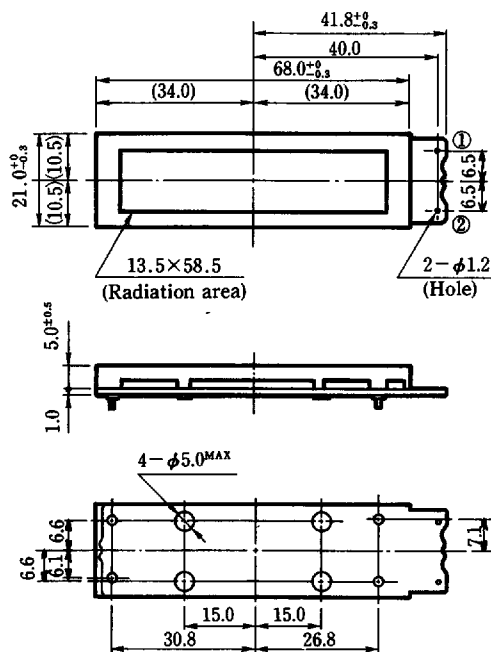
LT4083H	Yellow	GaAlAs/GaAs
LT4083E	Yellow-green	GaP

Features

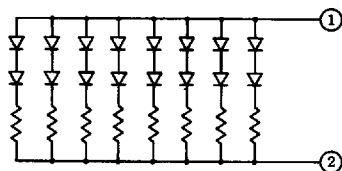
1. Radiation size 13.5×58.5 mm
2. For negative type LCD
3. Display format of LCD 16 characters $\times$ 2 lines
4. Sixteen yellow or yellow-green LED chips on board with built-in resistors for limiting the supply current

Outline Dimensions

(Unit: mm)



Internal connection diagram

Unspecified tolerance : ± 0.3 mm

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■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	LT4083H	LT4083E	Unit
Continuous forward current	I _F	20	20	mA
Reverse voltage	V _R	5	5	V
Operating temperature	T _{opr}	-10 to +60		°C
Storage temperature	T _{stg}	-25 to +75		°C

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■ Electro-optical Characteristics

(Ta = 25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _{LED}	LT4083H	—	4.75	5.0	5.25	V
		LT4083E	—	4.75	5.0	5.25	
Continuous forward current	I _F	LT4083H	V _{LED} = 5V	—	90	—	mA
		LT4083E	V _{LED} = 5V	—	80	—	
※1 Luminous intensity	I _v	LT4083H	V _{LED} = 5V	13	39	—	cd/m ²
		LT4083E	V _{LED} = 5V	22	45	—	
Peak emission wavelength	λ _p	LT4083H	V _{LED} = 5V	—	585	—	nm
		LT4083E	V _{LED} = 5V	—	565	—	
Spectrum radiation bandwidth	Δλ	LT4083H	V _{LED} = 5V	—	30	—	nm
		LT4083E	V _{LED} = 5V	—	30	—	
Response frequency	f _c	LT4083H	—	—	4	—	MHz
		LT4083E	—	—	4	—	

※1 Measured at the center of the unit with all LEDs lit

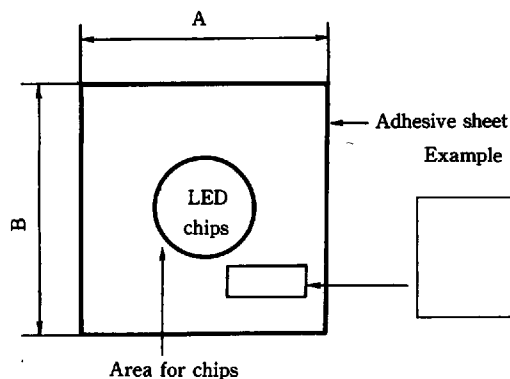
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Packing Specifications for LED Chips

T-90-20

1. Chip Packing

The chips are pasted up on the center of an adhesive sheet, then covered with a protective sheet.



Example

Model No. chip packing classification No.

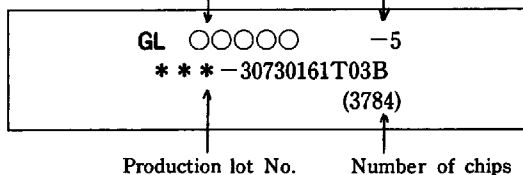


Fig. 1

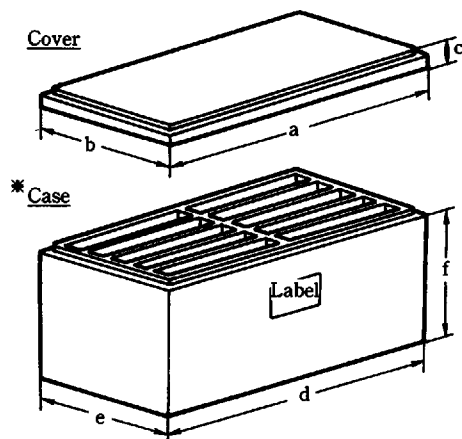
2. Sheet Packing

PART No.	
QUANTITY	00 pcs. (UNITS)
ID No.	
SHARP CORPORATION	

Put the chip-pasted sheet into a dedicated styrol case, then paste up a label shown in Fig. 2 on its side.

Fig. 2

3. Styrol Case



*Divided into 10 divisions

Fig. 3

LED Chips

SHARP CORP

Packing Specifications

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(Unit : mm)

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Adhesive sheet size A × B	Cover			Case			1 division		
	a	b	c	d	e	f	Length	Width	Depth
110×110	265	170	22.5	265	170	125	115	22.5	115
150×150	350	170	22.5	350	170	165	155	22.5	155
180×180	465	200	22.5	465	200	220	205	25	205
200×200	465	200	22.5	465	200	220	205	25	205

As to details such as materials, colors and paste intensity of chip-pasted sheets, etc., please contact our sales department.