

# LT5008E

8 × 8 Dot Matrix LEDs

■ Model No.

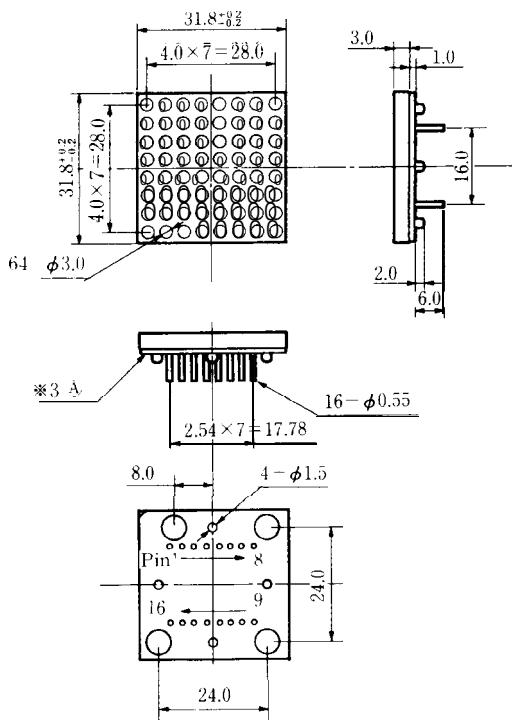
LT5008E      Yellow-green      GaP

■ Features

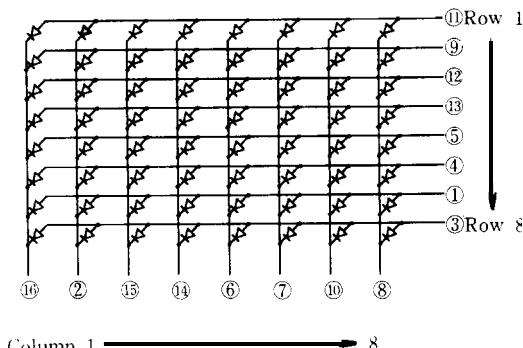
1. Substrate type
2. 1.1" character height

■ Outline Dimensions

(Unit: mm)



Internal connection diagram



Column 1 → 8

No.	FUNCTION	No.	FUNCTION
1	Row 7 Anode	9	Row 2 Anode
2	Column 2 Cathode	10	Column 7 Cathode
3	Row 8 Anode	11	Row 1 Anode
4	Row 6 Anode	12	Row 3 Anode
5	Row 5 Anode	13	Row 4 Anode
6	Column 5 Cathode	14	Column 4 Cathode
7	Column 6 Cathode	15	Column 3 Cathode
8	Column 8 Cathode	16	Column 1 Cathode

SHARP

\*In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that occur in equipment using any of SHARP's devices, shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest version of the device specification sheets before using any SHARP's device.

**LT5008E****■ Absolute Maximum Ratings**

(Ta=25°C)

Parameter	Symbol	LT5008E						Unit
*1 Power dissipation	P	1200						mW
Continuous forward current	Per dot	I <sub>F</sub>	15					mA
*2 Peak forward current	Per dot	I <sub>FM</sub>	50					mA
Derating factor	Per dot	' c	-	-				mA/°C
		Pulse	-	0.91				mA/°C
Reverse voltage	Per dot	V <sub>R</sub>	5					V
operating temperature	T <sub>opt</sub>			20	to	+60		"C
Storage temperature	T <sub>stg</sub>			20	to	+80		"C
*3 Soldering temperature	T <sub>sot</sub>			260	(within 5 seconds)			"c

※1 Per device

※2 Duty ratio=1/10. Pulse width =0.1ms

※3 At the position of 3.6 mm from ④ level of outline dimensions

## LT5008E(Yellow-green)

## ■ Electro-optical Characteristics

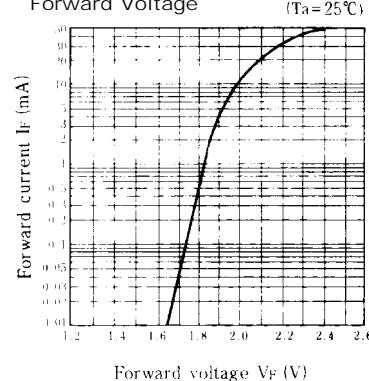
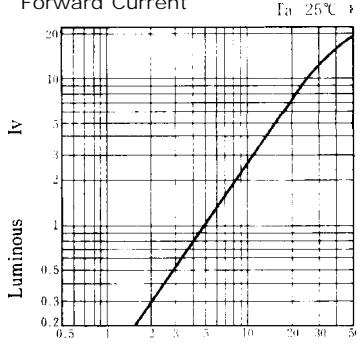
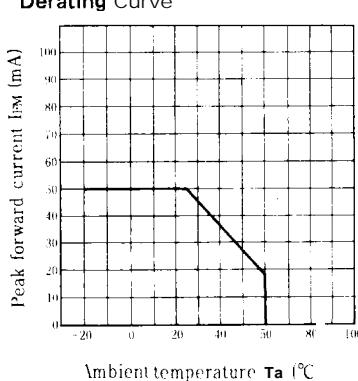
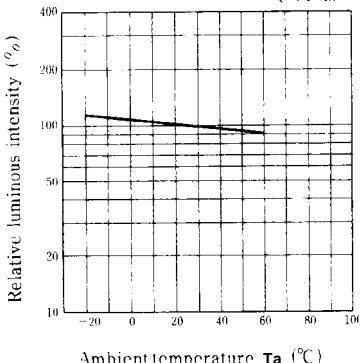
(Ta = 25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V <sub>F</sub>	LT5008E	I <sub>F</sub> = 10mA		2.0	—	V
		LT5008E	I <sub>FM</sub> = 50mA	—	2.4	3.0	
		LT5008E	I <sub>F</sub> = 10mA	1.6	2.8	—	
*5 Luminous intensity	I <sub>V</sub>	LT5008E	I <sub>F</sub> = 10mA	1.6	2.8	—	mcd
		LT5008E	I <sub>FM</sub> = 50mA	—	565	—	
Peak emission wavelength	λ <sub>p</sub>	LT5008E	I <sub>FM</sub> = 50mA	—	565	—	nm
Spectrum radiation bandwidth	Δλ	LT5008E	I <sub>FM</sub> = 50mA	—	30	—	nm
		LT5008E	I <sub>FM</sub> = 50mA	—	—	—	
Reverse current	I <sub>R</sub>	LT5008E	V <sub>R</sub> = 4V	—	—	10	μA
Response frequency	f <sub>c</sub>	LT5008E	—	—	4	—	MHz

\*4 Per dot

\*5 Tolerance: ±30%

## ■ Characteristics Diagrams

Forward Current vs.  
Forward VoltageLuminous Intensity vs.  
Forward CurrentPeak Forward Current  
Derating CurveRelative Luminous Intensity vs.  
Ambient Temperature (1,10mcd)

Spectrum Distribution

