

LT5020S

24X 24 Dot Matrix LEDs

■ Model No.

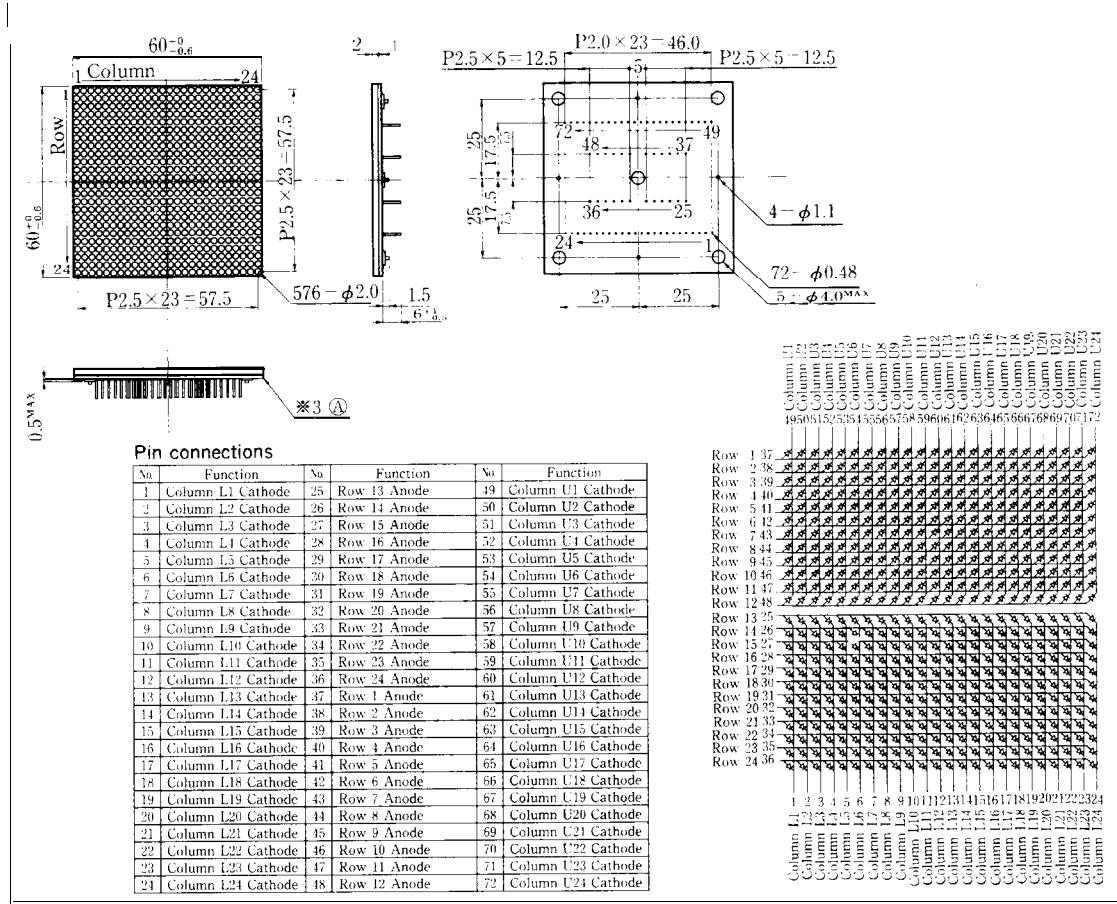
LT5020S Sunset orange GaAsP/GaP

■ Features

1. Substrate type
2. 2.26" character height

■ Outline Dimensions

(Unit : mm)



LT5020S**■Absolute Maximum Ratings**

(Ta = 25°C)

Parameter	Symbol	LT5020S						Unit
* ¹ Power dissipation	P	3240						mW
Continuous forward current	Per dot	I _F	15					mA
* ² Peak forwrd current	Per dot	I _{FM}	50					mA
Derating factor	Per dot	' c	—					mA/°C
		Pulse	—	0.91				mA/°C
Reverse voltage	Per dot	V _R	5					V
Operating temperature	T _p			-20 to +60				°C
Storage temperature	T _{stg}			-20 to +80				°C
* ³ Soldering temperature	T _{so1}			260 (within 5 seconds)				°C

※1 Per device : 576 chips

※2 Duty ratio=1/12, Pulse width=0.1ms

※3 At the position of 1.6 mm from ⑧level of outline dimensions

LT5020S(Sunset orange)

■ Electro-optical Characteristics*

(Ta=25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V_F	LT5020S	$I_F = 10\text{mA}$		1.9	--	V
		LT5020S	$I_{FM} = 50\text{mA}$		2.2	3.0	
*5 Luminous intensity	Iv	LT5020S	$I_F = 10\text{mA}$	1.1	2.0	--	mcd
		LT5020S	$I_{FM} = 50\text{mA}$		610	--	
Peak emission wavelength	λ_P	LT5020S	$I_{FM} = 50\text{mA}$		35	--	nm
		LT5020S					
Spectrum radiation bandwidth	$\Delta\lambda$	LT5020S	$I_{FM} = 50\text{mA}$				nm
		LT5020S					
Reverse current	I_R	LT5020S	$V = 4\text{V}$			10	μA
		LT5020S					
Response frequency	f_c	LT5020S	--		4	--	MHz
		LT5020S					

*4 Per dot

*5 Tolerance : $\pm 30\%$

■ Characteristics Diagrams

