

LT9323□ Series

Thin Case Mold Type LED Panel Displays

■ Model No.

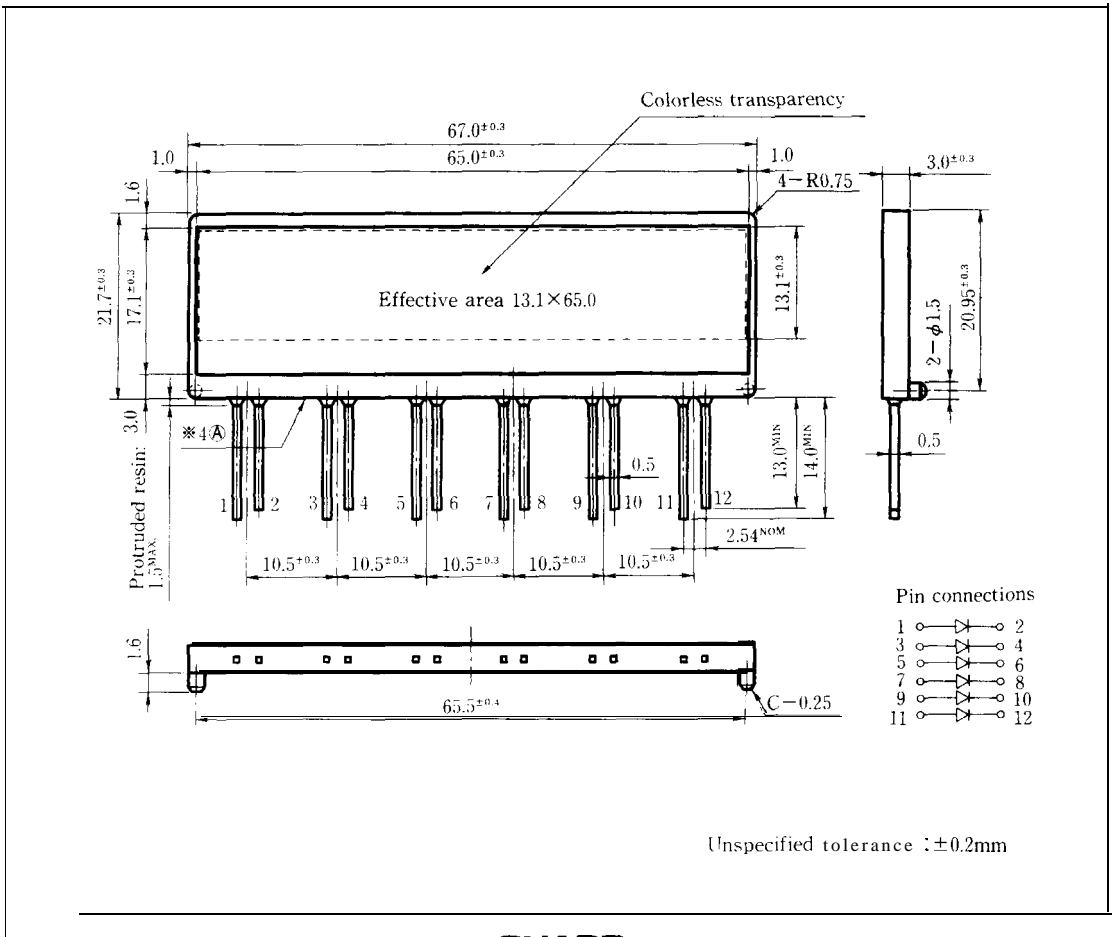
LT9323D Red	GaAsP/GaP
LT9323H Yellow	GaAsP/GaP
LT9323E Yellow-green	GaP

■ Features

1. Radiation size 13.1 X 65.0mm
2. Thin case mold type

■ Outline Dimensions

(Unit: mm)



SHARP

LT9323 □

■ Absolute Maximum Ratings ※1

(Ta = 25°C)

Parameter	Symbol	LT9323D				Unit
		LT9323H				
		LT9323E				
※2 Power dissipation	P	504				mW
Continuous forward current	I _F	30				mA
※3 Peak forward current	I _{FM}	50				mA
Derating factor	DC	=	0.55			mA/°C
	Pulse	=	0.91			mA/°C
Reverse voltage	V _R	5				v
Operating temperature	T _{opr}	-20 to +70				°C
Storage temperature	T _{stg}	-30 to +80				°C
※4 Soldering temperature	T _{sol}	260 (within 5 seconds)				°C

※1 Per chip

※2 Per lamp : 6 chips

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

※4 At the position of 1.6 mm from (A) level of outline dimensions

A

LT9323D (Red)

■ Electro-optical Characteristics *1

(Ta=25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V_F	LT9323D	$I_F = 20\text{mA}$	—	2.0	2.8	V
*5 Luminous intensity	L_v	LT9323D	$I_F = 20\text{mA}$	3.0	8.0	—	mcd/cm ²
Peak emission wavelength	λ_p	LT9323D	$I_F = 20\text{mA}$	—	635	—	nm
Spectrum radiation bandwidth	$\Delta\lambda$	LT9323D	$I_F = 20\text{mA}$	—	35	—	nm
Reverse current	I_R	LT9323D	$V_R = 4\text{V}$	—	—	10	μA
Response frequency	f_c	LT9323D	—	—	4	—	MHz

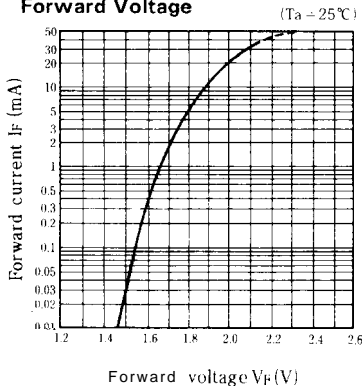
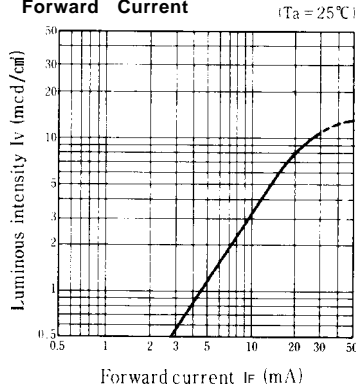
*1 Per chip

*5 Per lamp : 6 chips

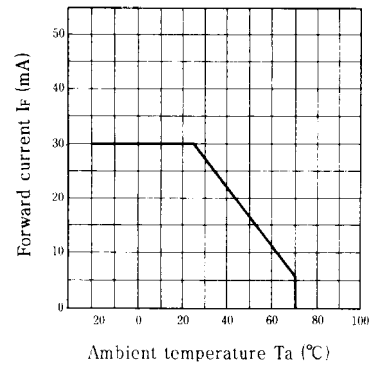
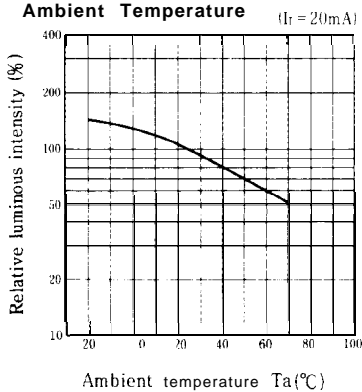
Effective area : 13.1 × 65.0mm

Tolerance : ±30%

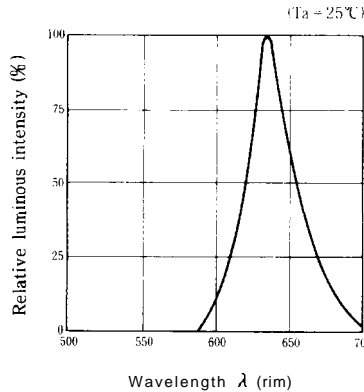
■ Characteristics Diagrams

Forward Current vs.
Forward VoltageLuminous Intensity vs.
Forward Current

Forward Current Derating Curve

Relative Luminous Intensity vs.
Ambient Temperature

Spectrum Distribution



LT9323H (Yellow) / LT9323E (Yellow-green)

■ Electro-optical Characteristics *1

(Ta = 25°C)

Parameter	Symbol	Model No	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V _F	LT9323H	I _F = 20mA	—	2.0	2.8	V
		LT9323E	I _F = 20mA	—	2.1	2.8	
*5 Luminous intensity	L _v	LT9323H	I _F = 20mA	4.0	8.5	—	mcd/cm ²
		LT9323E	I _F = 20mA	5.0	11	—	
Peak emission wavelength	λ _p	LT9323H	I _F = 20mA	—	585	—	nm
		LT9323E	I _F = 20mA	—	565	—	
Spectrum radiation bandwidth	Δλ	LT9323H	I _F = 20mA	—	30	—	nm
		LT9323E	I _F = 20mA	—	30	—	
Reverse current	I _R	LT9323H	V _R = 4V	—	—	10	μA
		LT9323E	V _R = 4V	—	—	10	
Response frequency	f _c	LT9323H	—	—	4	—	MHz
		LT9323E	—	—	4	—	

*1 Per chip

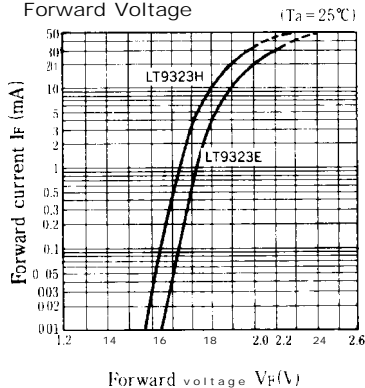
*5 Per lamp : 6 chips

Effective area : 13.1 × 65.0mm

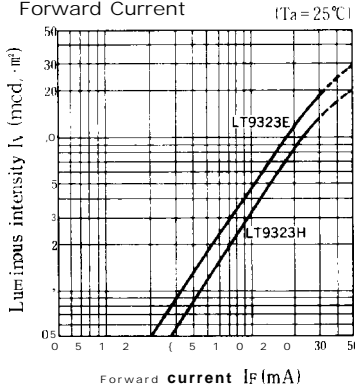
Tolerance : ±30%

■ Characteristics Diagrams

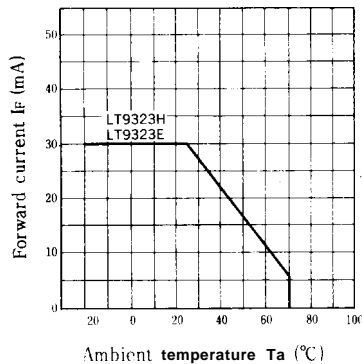
Forward Current vs. Forward Voltage



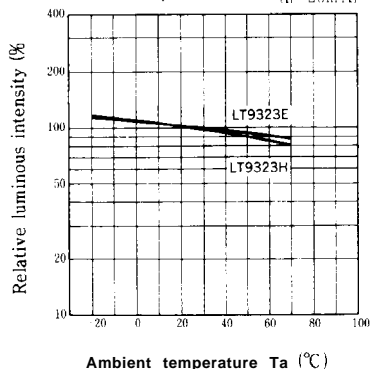
Luminous Intensity vs. Forward Current



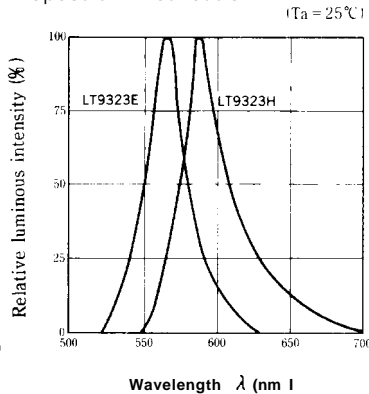
Forward Current Derating Curve



Relative Luminous Intensity vs. Ambient Temperature



Spectrum Distribution



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