LT9200□ Series

Mold Built-in Reflector TYPE LED Panel Displays

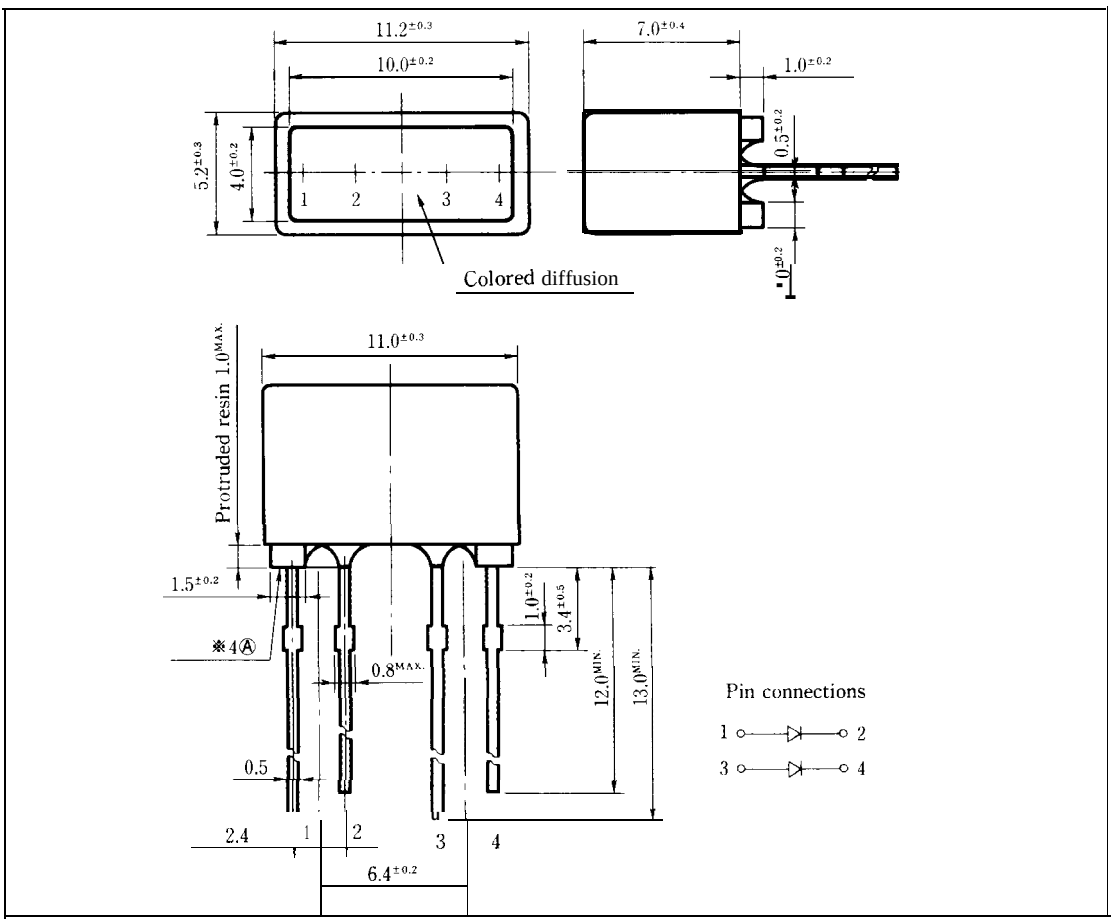
■ Model No.

LT9200D Red	GaAsP/GaP
LT9200H Yellow	GaAsP/GaP

■ Features

1. Radiation size **4.0** x 10.0mm
2. Mold built-in reflector type

■ Outline Dimensions (Unit: mm)



LT9200□

■ Absolute Maximum Ratings ※1

(Ta=25℃)

Parameter		Symbol	LT9200D	LT9200H				Unit
※2 Power dissipation		P	168	100				mW
Continuous forward current		I_F	30	20				mA
※3 Peak forward current		I_{FM}	50	50				mA
Derating factor	DC	–	0.55	0.36				mA/℃
	Pulse	=	0.91	0.91				mA/℃
Reverse voltage		V_R	5	5				V
Operating temperature		T_{opr}	–20 to +70					℃
Storage temperature		T_{stg}	–30 to +80					℃
※4 Soldering temperature		T_{sol}	260 (within 5 seconds)					℃

※1 Per chip
※2 Per lamp : 2 chips
※3 Dutv ratio=1/10. Pulse width =0.1ms
※4 At the position of 3.4 mm from Ⓐ level of outline dimensions

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LT9200D (Red) / LT9200H (Yellow)

■ Electro-optical Characteristics ※1

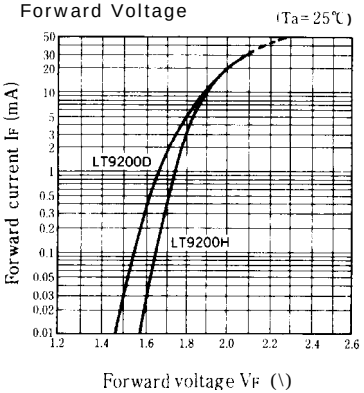
(Ta=25℃)

Parameter	Symbol	Model No.	Conditions	MIX.	TYP.	MAX.	Unit
Forward voltage	V_F	LT9200D	I_F=20mA		2.0	2.8	"
		LT9200H	I_F=10mA	·	1.9	2.5	
※5 Luminous intensity	I_V	LT9200D	I_F=20mA	4.5	9.5	–	mcd
		LT9200H	I_F=10mA	1.5	4.0	-	
Peak emission wavelength	λ_p	LT9200D	I_F=20mA	–	635	–	
		LT9200H	I_F=10mA		585	–	'm
Spectrum radiation bandwidth	$\Delta\lambda$	LT9200D	I_F=20mA	–	35	–	
		LT9200H	I_F=10mA	–	30	–	'm
Reverse current	I_R	LT9200D	V_R=4V		–	10	μA
		LT9200H	V_R=4V	–		10	
Response frequency	f_c	LT9200D	–	–	4	–	
		LT9200H	–	–	4	–	'Hz

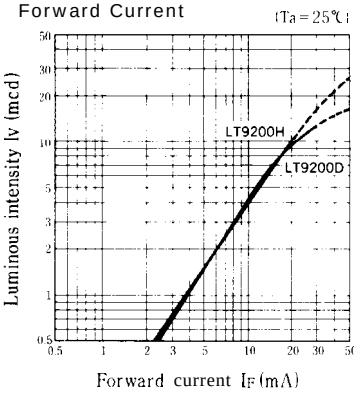
※1 Per chip
※5 Per lamp : 2 chips, Tolerance : ±30%

■ Characteristics Diagrams

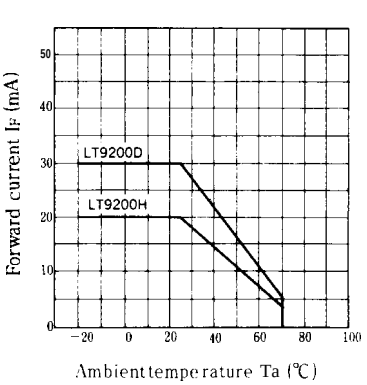
Forward Current vs. Forward Voltage



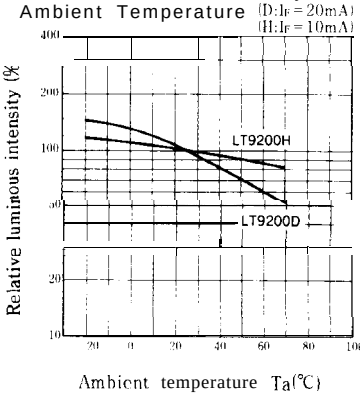
Luminous Intensity vs. Forward Current



Forward Current **Derating** Curve



Relative Luminous Intensity vs. Ambient Temperature (D:IF=20mA) (H:IF=10mA)



Spectrum Distribution