

LT9526□ Series

φ 20mm Dome Type LED Lamps

Model No.

LT9526D Red

GaAsP/GaP

LT9526H Yellow

GaAsP/GaP

LT9526E Yellow-green

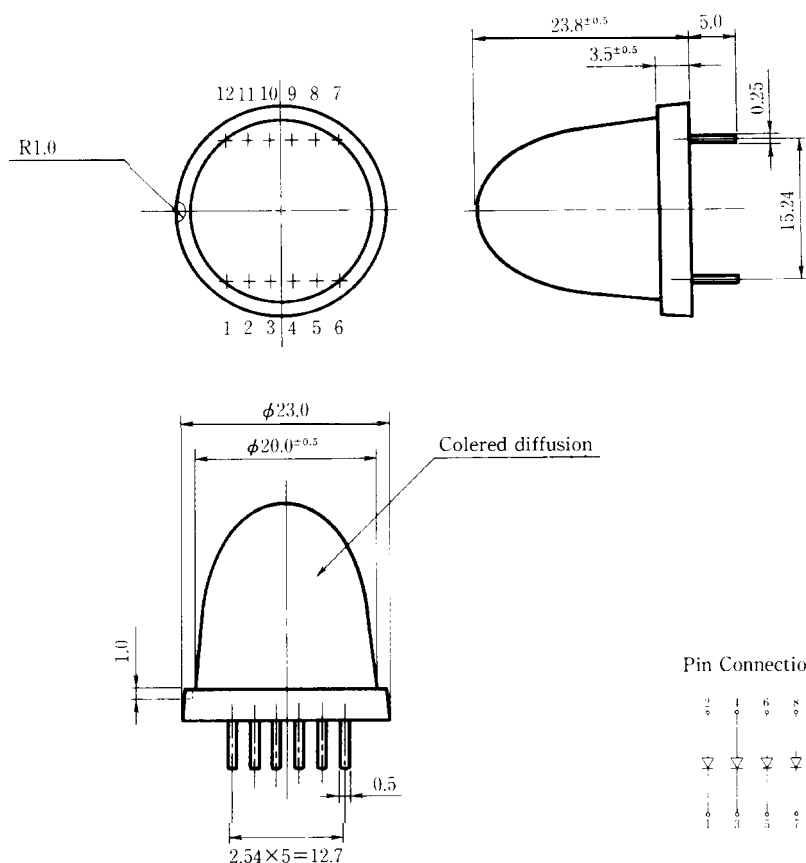
GaP

Features

1. φ 20mm all resin mold
2. Colored diffusion lens type

Outline Dimensions

(Unit: mm)



LT9526□

■ Absolute Maximum Ratings ※1

(Ta = 25°C)

Parameter	Symbol	LT9526D			Unit
		LT9526H			
		LT9526E			
※2 Power dissipation	P	1010			mW
Continuous forward current	I _F	60			mA
※3 Peak forward current	I _{FM}	100			mA
Derating factor	DC	1.09			mA/°C
	Pulse	1.82			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 1.6mm from the bottom face of resin package

LT9526D (Red)

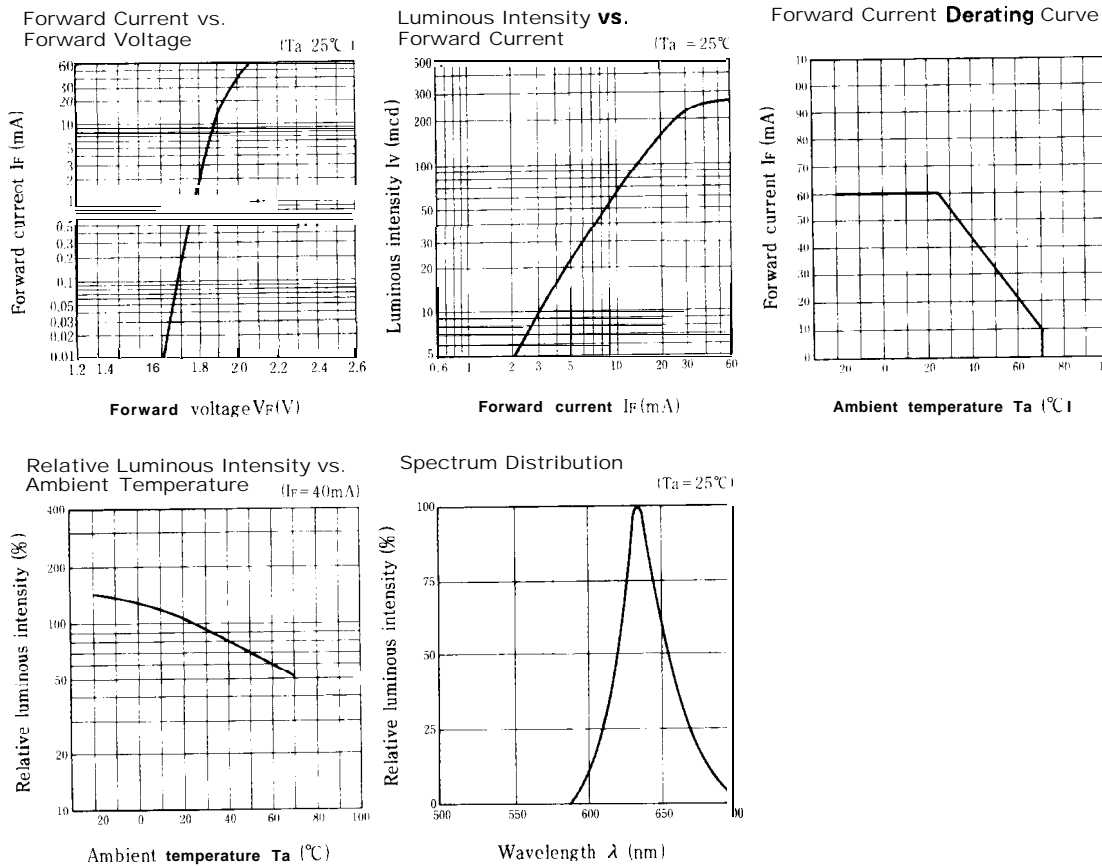
■ Electro-optical Characteristics ※1

(Ta = 25℃)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX	Unit
Forward voltage	V_F	LT9526D	$I_F = 40\text{mA}$		2.0	2.8	V
※2 Luminous intensity	I_v	LT9526D	$I_F = 40\text{mA}$	100	250	—	mcd
Peak emission wavelength	λ_p	LT9526D	$I_F = 40\text{mA}$	—	635	—	nm
Spectrum radiation bandwidth	$\Delta\lambda$	LT9526D	$I_F = 40\text{mA}$		35	—	nm
Reverse current	I_R	LT9526D	$V_R = 4\text{V}$			10	μA
Terminal capacitance	C_t	LT9526D	$V = 0\text{V}$ $f = 1\text{MHz}$	—	30	—	pF
Response frequency	f_c	LT9526D	—		4	—	MHz

※1 Per chip
X2 Per lamp : 6 chips, Tolerance: ±30%

■ Characteristics Diagrams



LT9526H (Yellow) / LT9526E (Yellow-green)

■ Electro-optical Characteristics ※1

(Ta=25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	V_F	LT9526H	$I_F = 40\text{mA}$		2.0	2.8	V
		LT9526E	$I_F = 40\text{mA}$	—	2.2	2.8	
※2 Luminous intensity	I_v	LT9526H	$I_F = 40\text{mA}$	100	250	—	mcd
		LT9526E	$I_F = 40\text{mA}$	100	250	—	
Peak emission wavelength	λ_p	LT9526H	$I_F = 40\text{mA}$	—	585	—	nm
		LT9526E	$I_F = 40\text{mA}$	—	565	—	
Spectrum radiation bandwidth	$\Delta\lambda$	LT9526H	$I_F = 40\text{mA}$	—	35	—	nm
		LT9526E	$I_F = 40\text{mA}$	—	30	—	
Reverse current	I_R	LT9526H	$V_R = 4\text{V}$	—	—	10	μA
		LT9526E	$V_R = 4\text{V}$	—	—	10	
Terminal capacitance	C_t	LT9526H	$V = 0\text{V}$ $f = 1\text{MHz}$	—	30	—	pF
		LT9526E	$V = 0\text{V}$ $f = 1\text{MHz}$	—	70	—	
Response frequency	f_c	LT9526H	—	—	4	—	MHz
		LT9526E	—	—	4	—	

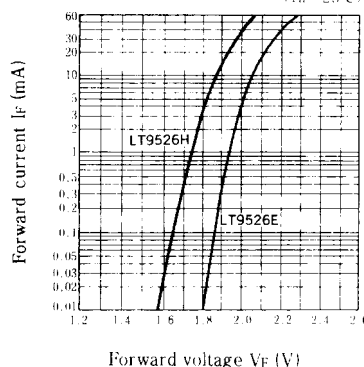
※1 Per chip

※2 Per lamp : 6 chips, Tolerance: $\pm 30\%$

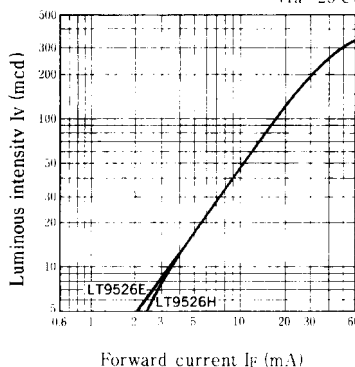
■ Characteristics Diagrams

Forward Current vs.
Forward Voltage

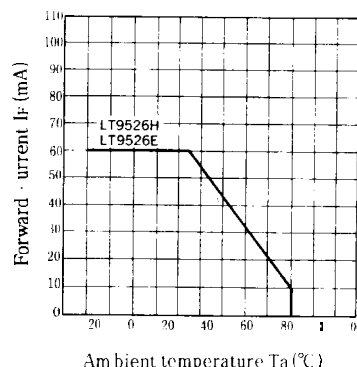
(Ta = 25°C)

Luminous Intensity vs.
Forward Current

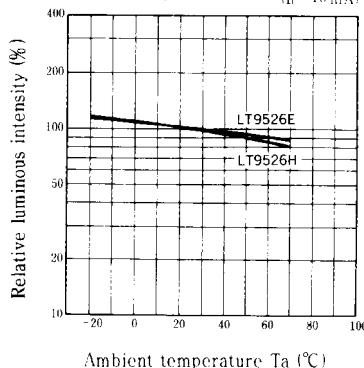
(Ta = 25°C)



Forward Current Derating Curve

Relative Luminous Intensity vs.
Ambient Temperature

(I_F = 40 mA)



Spectrum Distribution

(Ta = 25°C)

