

LT1 □ 52A Series

Colorless Transparency Chip LED Devices

■ Model No.

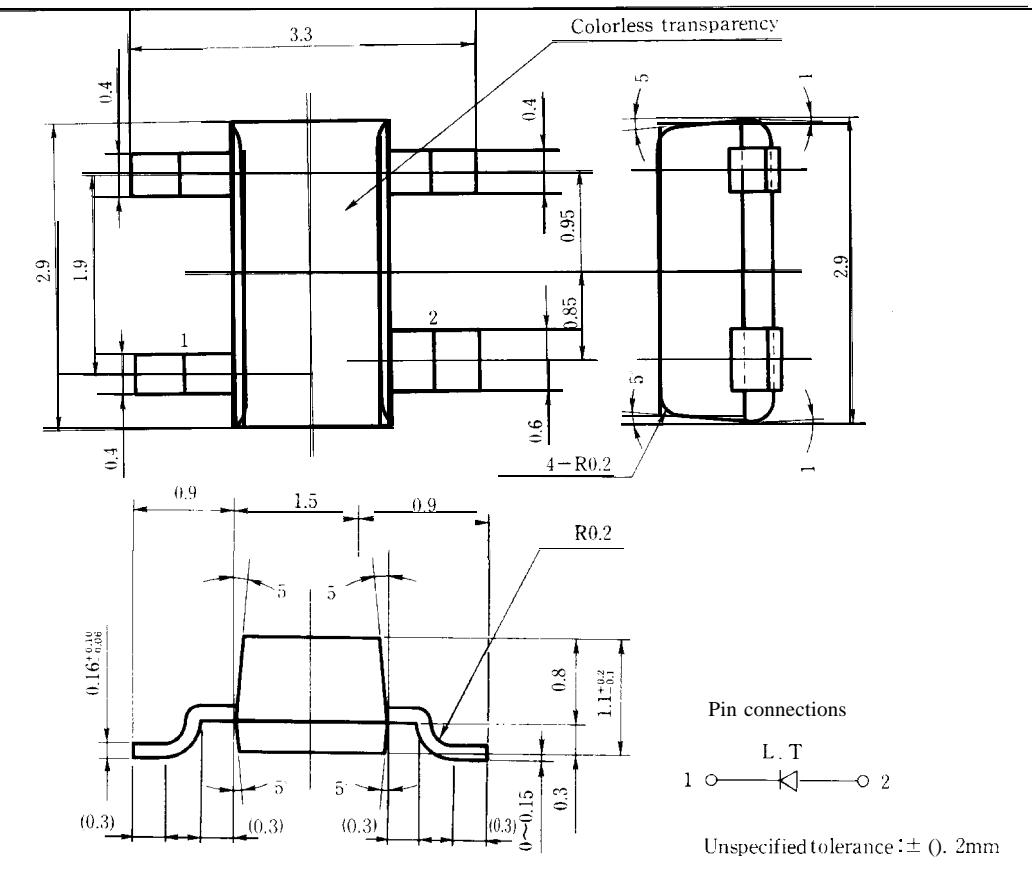
LT1L52A Red (High-luminosity) GaAlAs/GaAs
 LT1T52A Red (High-luminosity) GaAlAs/GaAs

■ Features

1. Radiation size 1.5 × 2.9mm
2. Colorless transparency lens type
3. Taped models : Tape width 8mm, 3,000 pcs/reel

■ Outline Dimensions

(Unit: mm)



Regarding the taping specifications, please see "Taped Models" of Appendix.

SHARP

LT1 □ 52A

■ Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	LT1L52A	LT1T52A				Unit
Power dissipation	P	110	66				mW
Continuous forward current	I _F	50	30				mA
*1 Peak forward current	I _{FM}	300	50				mA
Derating factor	DC	—	0.67	0.40			mA/°C
	Pulse	—	4.00	0.67			mA/°C
Reverse voltage	V _R	5	5				V
Operating temperature	T _{opr}	-25 to +85					°C
Storage temperature	T _{stg}	-25 to +100					°C

※1 Duty ratio = 1/10, Pulse width = 0.1ms

Duty ratio = 1/16, Pulse width ≤ 1ms for LT1L52A

LT1L52A (Red)/ LT1T52A (Red)**■ Electro-optical Characteristics**

(Ta=25°C)

Parameter	Symbol	Model No.	Conditions	MIN.	TYP.	MAX.	Unit
Forward voltage	VF	LT1L52A	IF=20mA	—	1.75	2.2	V
		LT1T52A	IF=20mA	—	1.75	2.2	
*2 Luminous intensity	IV	LT1L52A	IF=20mA	6.0	15	—	mcd
		LT1T52A	IF=20mA	4.5	9.0	—	
Peak emission wavelength	\lambda_p	LT1L52A	IF=20mA	—	660	—	'm
		LT1T52A	IF=20mA	—	660	—	
Spectrum radiation bandwidth	\Delta\lambda	LT1L52A	IF=20mA	—	20	—	'm
		LT1T52A	IF=20mA	—	20	—	
Reverse current	IR	LT1L52A	VR=4V	—	—	10	\mu A
		LT1T52A	VR=4V	—	—	10	
Terminal capacitance	Ct	LT1L52A	V=OV f=1MHz	—	30	—	pF
		LT1T52A	V=OV f=1MHz	—	30	—	
Response frequency	fc	LT1L52A	—	—	8	—	'Hz
		LT1T52A	—	—	8	—	

*2 Tolerance: ±30%

■ Characteristics Diagrams