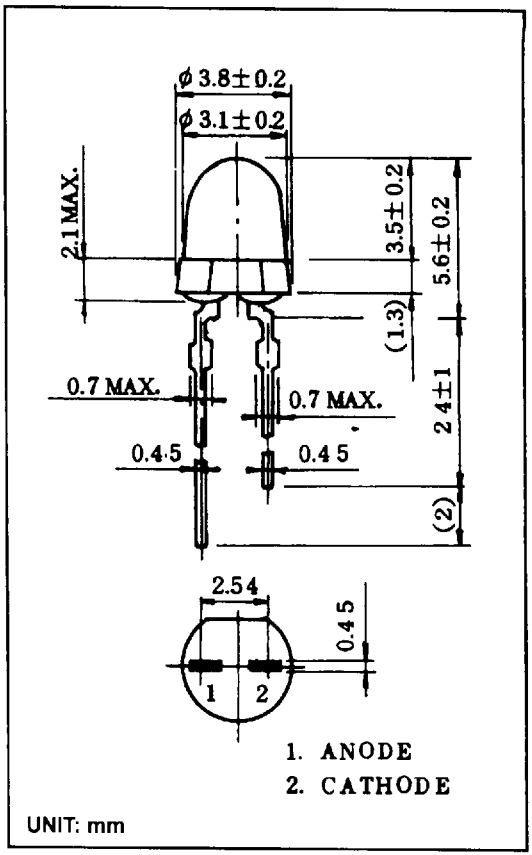
RED **T-1 Ultra Bright LED**

High Performance Ultra Bright LEDs

TLRA125

Product Features -

- GaAlAs Technology
- T-1 (3 mm) Package
- Water Clear Lens
- Wide Radiation Pattern



MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current	I_F	25	mA
Reverse Voltage	V_R	4	V
Power Dissapation	P_D	55	mW
Operating Temperature	T_{opr}	-20 ~ 85	°C
Storage Temperature	T_{stg}	-30 ~ 100	°C

OPTO-ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V_F	IF = 20mA	—	1.85	2.2	V
Reverse Current	I_R	VR = 4V	—	—	100	μA
Luminous Intensity*	I_V	IF = 20mA	85	300	—	mcd
Viewing Angle	$2\theta\frac{1}{2}$	—	—	50	—	°
Peak Wavelength	λ_p	IF = 20mA	—	660	—	nm
Dominant Wavelength	λ_d	IF = 20mA	—	647	—	nm
Spectral Line Half Width	$\Delta\lambda$	IF = 20mA	—	25	—	nm

* Luminous Ranks: (P : 180-360mcd), (Q : 320-640mcd), (R : 560-1120mcd) Upper and lower limit tolerance ±15%
Available in Two Bin Combinations. (PQ), (QR)

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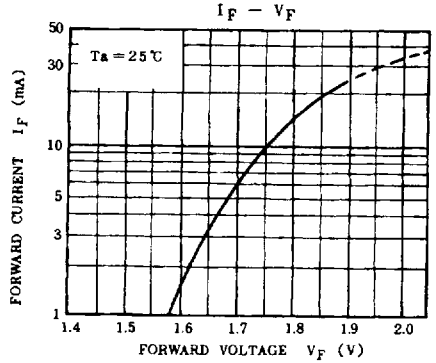
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All specifications subject to change.

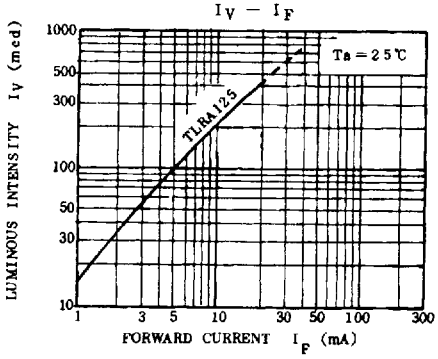
5799655 0001429 40T

TLRA125 Graphs -

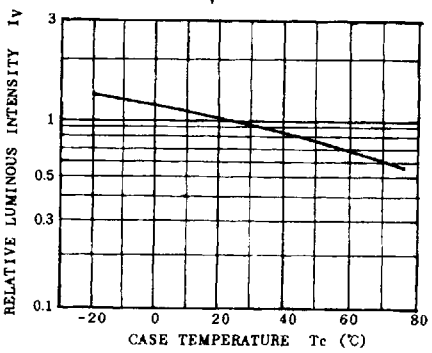
$I_F - V_F$



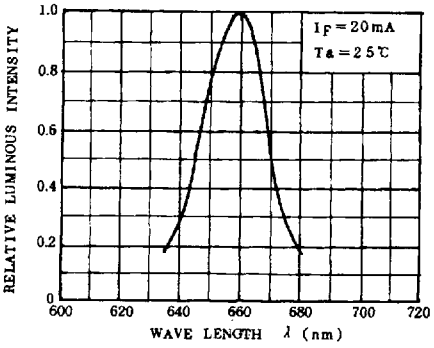
$I_V - I_F$



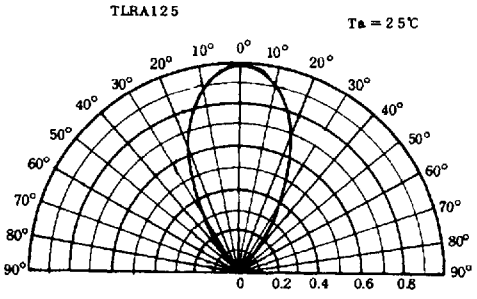
$I_V - Tc$



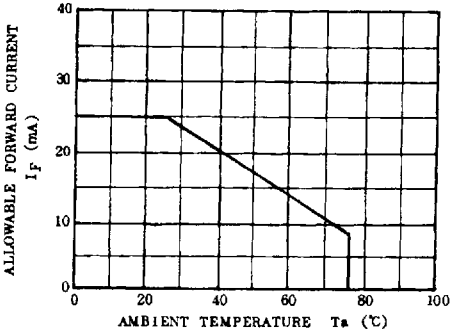
RELATIVE LUMINOUS INTENSITY — WAVE LENGTH



RADIATION PATTERN



$I_F - Ta$



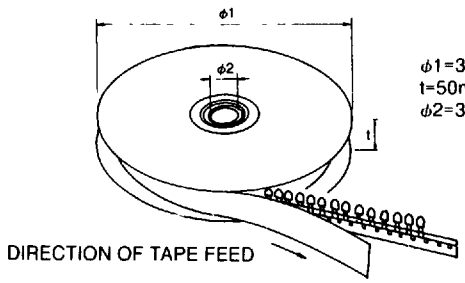
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APPLICATION NOTES

[4] Packaging

Reel Packaging

a) Reel type



ϕ1=360mm
t=50mm
ϕ2=30mm

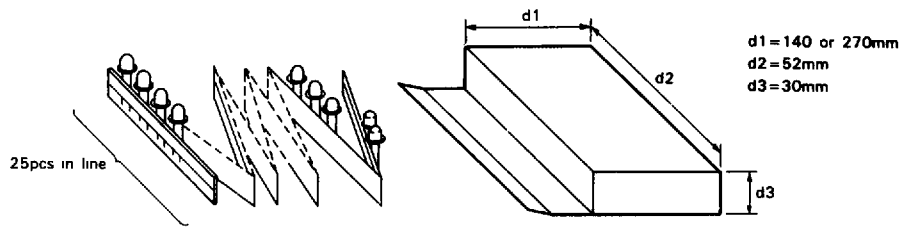
Content

LED Type	Quantity/Reel
ϕ3 Series	2000 pcs
ϕ5 Series	1000 pcs

T-1 and T- 1 3/4 packages

*Lamps with external shapes other than those above are also available. Please consult Marktech.

b) Zigzag wound tape



d1=140 or 270mm
d2=52mm
d3=30mm

At tape beginning and end, there is additional space for 4 pcs or more

Content

LED Type	Quantity/Box
ϕ3 Series	2000 or 5000 pcs
ϕ5 Series	1000 or 2000 pcs