Device Number: DLE-038-021 REV: 1.3

## T-1 3/4(5mm) High Intensity LEDs

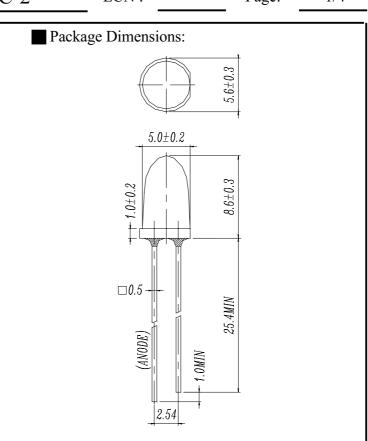
MODEL NO: 383URC-2 ECN: Page: 1/4

#### Features:

- Popular T-1 3/4 diameter package.
- Choice of various viewing angles.
- Available on tape and reel.
- Reliable and rubust.

#### Descriptions:

- The series is specially designed for applications require higher brightness than that achievable with standard lamp.
- The LED lamps are available with different colors, intensities, epoxy colors, etc.



## Applications:

- TV Set
- Monitor
- Telephone

#### NOTES:

- 1.All dimensions are in millimeter.
- 2. Epoxy meniscus may extend about
- 1.5mm(0.059") down to the lead.

Computer

PART NO	СНІР		Lens Color
	Material	Emitted Color	
383URC-2	GaAlAs	Super Red	Water Clear

Device Number:	DLE-038-021	REV:	1.3

T-1 3/4 (5mm) Round Shape LEDs

Absolute Maximum Ratings at  $Ta = 25^{\circ}C$ 

Parameter	Symbol	Rating	Unit
Forward Current	If	40	mA
Operating Temperature	Topr	-40 to +85	$^{\circ}\!\mathbb{C}$
Storage Temperature	Tstg	-40 to +100	$^{\circ}\!\mathbb{C}$
Soldering Temperature	Tsol	$260 \pm 5$	$^{\circ}\!\mathbb{C}$
Power Dissipation	Pd	110	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	180	mA
Reverse voltage	Vr	5	V

Electronic Optical Characteristics:

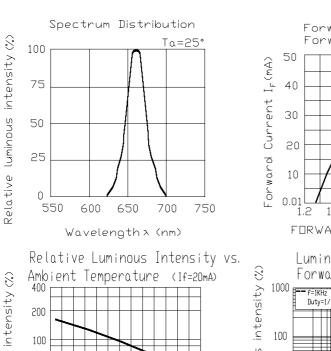
1						
Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous intensity	Iv	1200	2000		mcd	If=20mA
Viewing Angle	2 \theta 1/2		12		deg	If=20mA
Peak Wavelength	λp		660		nm	If=20mA
Dominant Wavelength	λd		643		nm	If=20mA
Spectrum Radiation Bandwidth	Δλ		20		nm	If=20mA
Forward Voltage	Vf	1.5	1.7	2.4	V	If=20mA
Reverse Current	Ir			10	$\mu$ A	Vr=5V

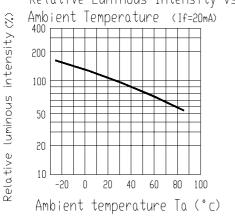
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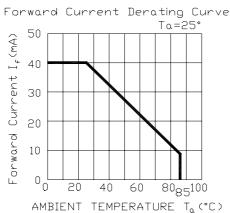
T-1 3/4(5mm) High Intensity LEDs

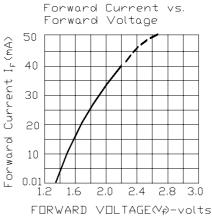
MODEL NO 383URC-2 ECN: Page: 3/4

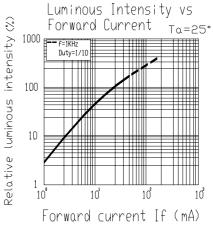
## Typical Electro-Optical Characteristic Curves

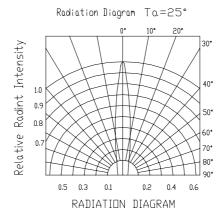












	Device Number:	DLE-038-021	REV:	1.3
T-1 3/4 (5mm) Rou	and Shape LEDs			
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# ■ Reliability test items and conditions

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Soldering Heat	TEMP : 260°C ± 5 °C	5 SEC	76 Pcs	0/1
2	Temperature Cycle	H:+85°C 30min ∫ 5 min L:-55°C 30min	50 CYCLE	76 Pcs	0/1
3	Thermal Shock	H: $+100^{\circ}$ C 5min $\int 10 \sec$ L: $-10^{\circ}$ C 5min	50 CYCLE	76 Pcs	0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 Pcs	0/1
5	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 Pcs	0/1
6	DC Operating Life	If = 20 mA	1000 HRS	76 Pcs	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 Pcs	0/1