

MAX-LION

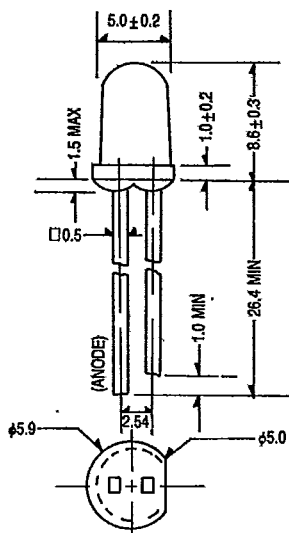
T-41-21

383 SERIES (T-1 3/4) Super Bright Round Type LED Lamps (5mm)

MAIN FEATURES:

- EXTRA SUPER BRIGHT INTENSITY (300mcd, 500mcd, 1000mcd.....)
- LONG LENGTH (25.4mm) OF LEADS.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- LONG LIFE-SOLID STATE RELIABILITY.

Package Dimensions:



DESCRIPTION:

The 383 series is designed specially for the requirement of super high intensity and is most suitable for the outdoor application or equipments requiring very high brightness. All types of this series are made with diodes of GaAIAs and with water clear lens.

ABSOLUTE MAXIMUM RATINGS: (Ta = 25°C)

Reverse Voltage	:	5 Volt
Reverse Current (Vr = 5V)	:	10µA
Operating Temperature Range	:	-40°C To 85°C
Storage Temperature Range	:	-40°C To 100°C
Lead Soldering Temperature [1.6 mm (1/16 inch) From Body]	:	260°C For 5 Seconds

- NOTE: 1. All dimensions are in millimeters.
2. Lead spacing is measured where the leads emerge from the package.
3. Protruded resin under flange 1.5 mm (0.059") Max.

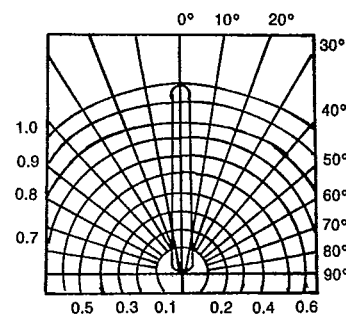
PART SELECTION AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

Type No.	Chip		Lens Color	Peak Wave Length λp(nm)	Absolute Maximum Ratings				Electro-Optical Characteristic						Viewing Angle 2θ½ (deg)	Remark
	Material	Emitted Color			Δλ (nm)	Pd (mw)	If(mA)	Peak If(mA)	Vf(V)			Rec If(mA)	Iv(mcd)			
									Min.	Typ.	Max.		Min.	Typ.		
EL383SRC-L1	GaAIAs	Super Red	Water Clear	660	20	110	40	200	1.5	1.7	2.4	10~20	100	300	12	**
EL383SRC-L2	GaAIAs	Super Red	Water Clear	660	20	110	40	200	1.5	1.7	2.4	10~20	400	500	12	**
EL383SRC-H3	GaAIAs	Super Red	Water Clear	660	20	110	40	200	1.5	1.7	2.4	10~20	700	2000	12	**

TEST CONDITION FOR EACH PARAMETER:

PARAMETER:	SYMBOL	UNIT	TEST CONDITION
REVERSE VOLTAGE	Vr	VOLT	Vr = 5.0 Volt
REVERSE CURRENT	Ir	µA	
FORWARD VOLTAGE	Vf	VOLT	
LUMINOUS INTENSITY	Iv	MCD	If = 20mA
VIEWING ANGLE	2θ½	DEGREE	
SPECTRAL LINE HALF-WIDTH	Δλ	nm	If = 20mA
POWER DISSIPATION	Pd	mW	
PEAK FORWARD CURRENT (Duty 1/10 @ 1KHz)	If (Peak)	mA	
RECOMMENDED OPERATING CURRENT	If (Rec)	mA	

Remark: **The most popular types *Common types The rest are special types
Hi-Eff Red → High Efficiency Red
Trans → Transparent



SPATIAL DISTRIBUTION