

Device Number: DLE-052-038 REV.: 1.2

2.0*5.0mm Rectangle Type LED Lamps

PART NO.: 524ID ECN: Page: 1/4

Features:

- Hight luminous power.
- Can be driven at low current.
- 2.54mm lead spacing.
- Available on tape and reel.

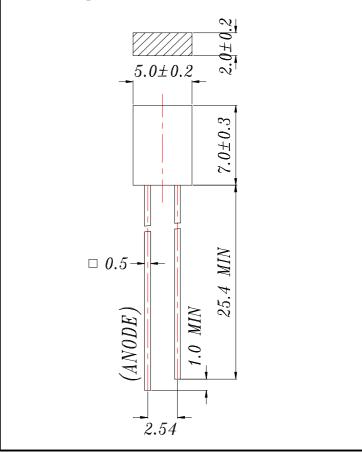
Descriptions:

- The series is specially designed for applications requiring higher brightness
- The LED lamps are available with different colors, intensities, epoxy colors, etc.

Applications:

- TV set
- Monitor
- Telephone
- Computer

Package Dimensions:



Notes:

- 1. All dimensions are in millimeters.
- 2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
- 3. Tolerances unless Dimension ± 0.25 .

PART NO	Chip		Lens Color
	Material	Emitted Color	
524ID	GaAsP/GaP	Hi-Eff Red	Red Diffused

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

2				
Parameter	Symbol	Rating	Unit	
Forward Current	IF	30	mA	
Operating Temperature	Topr	-40 to +85	$^{\circ}\!\mathbb{C}$	
Storage Temperature	Tstg	-40 to +100	$^{\circ}\mathbb{C}$	
Soldering Temperature	Tsol	260 ± 5	$^{\circ}\!\mathbb{C}$	
Power Dissipation	Pd	100	mW	
Peak Forward Current(Duty 1/10 @ 1KHz)	IF(Peak)	160	mA	
Reverse Voltage	VR	5	V	

■ Electronic Optical Characteristics:

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	Iv	2.0	3.0	/	mcd	IF= 10 mA
Viewing Angle	2 θ 1/2	/	175	/	deg	IF= 20 mA
Peak Wavelength	λp	/	635	/	nm	IF= 20 mA
Dominant Wavelength	λd	/	625	/	nm	IF= 20 mA
Spectrum Radiation Bandwidth	Δλ	/	45	/	nm	IF= 20 mA
Forward Voltage	VF	1.7	2.0	2.4	V	IF= 20 mA
Reverse Current	Ir	/	/	10	μΑ	VR= 5 V



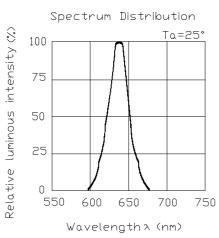
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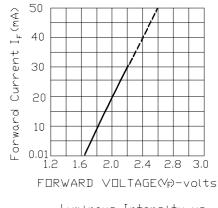
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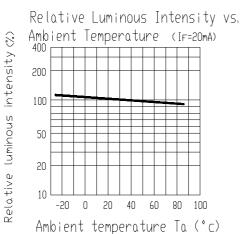
■ Typical Electro-Optical Characteristic Curves:

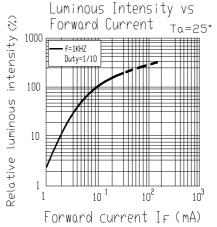


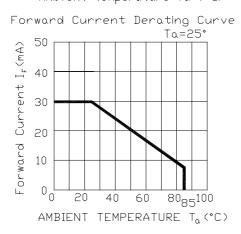


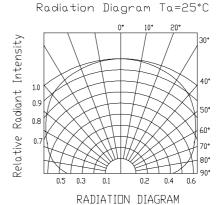


Forward Current vs.











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■ Reliability test items and conditions:

No	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260° C ± 5 $^{\circ}$ C	5 SEC	76 PCS	0/1
2	Temperature Cycle	H:+85°C 30min ∫ 5 min L:-55°C 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	$H: +100^{\circ}C$ 5min \int 10 sec $L: -10^{\circ}C$ 5min	50 CYCLES	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