

DATE: 05/20/2004 SMD LED : NO. 61L03002 cosmo REV. **KL197T02** 1 SHEET 2 OF 9 **ELECTRONICS CORPORATION** Absolute Maximum Ratings At Ta = $25^{\circ}C$ Parameter KL-197T02 Unit R В G **Power Dissipation** mW 72 72 80 **Peak Forward Current** 100 mΑ et4U.com (1/10 Duty Cycle, 0.1ms Pulse Width) DataShe **Forward Current** 30 mΑ **Reverse Voltage** 5 V **Operating Temperature Range** -25°C ~+ 80°C Storage Temperature Range -30°C ~+ 85℃ Wave Soldering Condition 240°C For 10 Seconds

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Note :

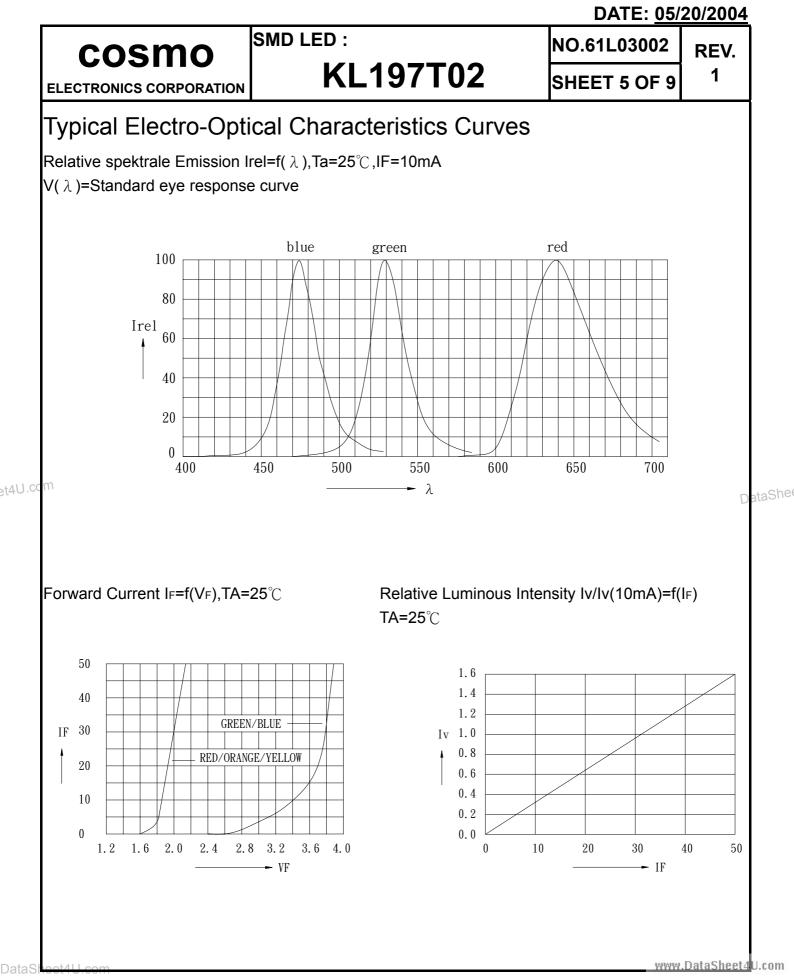
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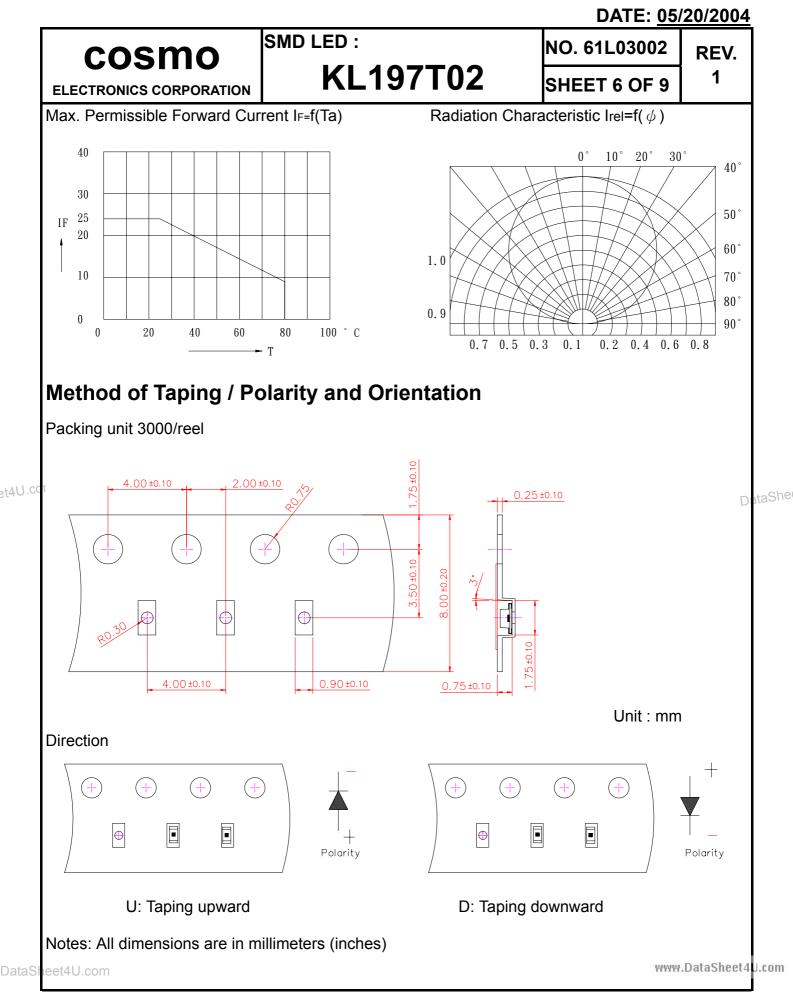
- Luminous intensity is measured with a photo detector and filter combination that follows the CIE ete - response curve. And the equipment measured luminous intensity torellance is ±5%.
- 2. θ 1/2 is the off axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength, λd is derived from the CIE chromaticity diagram and represents the color of the device.
- 4. Caution in ESD:

Static Electricity maybe cause damages to the LED. It is recommend to use a wrist band or DataSheet4U.comanti - electrostatic glove when handing the LED.

All devices, equipment and machinery must be properly grounded.

COSMO ELECTRONICS CORPORATION				SMD LED : KL197T02			NO. 61L03002 SHEET 4 OF 9	
The	Reliability	/ crite	ria of S	MD LED				
Item		Svi	mbol	Test Condition	Limit			
					Min		Max	
Forward Voltage		VF		IF=10mA	_		U.S.L*1.2	
Reverse Current		IR		VR=5V	-		U.S.L*2.0	
Power		PO		IF=10mA	L.S.L*0.7		_	
m	S.L: Lower S			DataSheet4U.com				
m	ults of Re			DataSheet4U.com		Fest S/Cycles	Sample	C Ac / Re
Res	ults of Re	liabilit	y Test		Hours	Fest s/Cycles CYCES	-	Ac / Re
Res NO	ults of Re	liability Item rature C	y Test	Test Condition H:+100°C 30min ∫ 5min	Hours 1000	s/Cycles	NÓ	Ac / Re 0 / 1
NO 1	ults of Re Temper	liability Item rature C erature	y Test cycle Storage	Test Condition H:+100°C 30min ∫ 5min L: -40°C 30min	Hours 1000 500	s/Cycles	NO 11 PCS	Ac / Re 0 / 1
NO 1 2	ults of Re Temper High Tempe Low Tempe	liability Item rature C erature	y Test bycle Storage Storage	Test Condition H:+100°C 30min ∫ 5min L: -40°C 30min Temp : 100°C	Hours 1000 500	s/Cycles CYCES OHRS	NO 11 PCS 11 PCS	Ac / Re 0 / 1 0 / 1





DATE: 05/20/2004 SMD LED : NO. 61L03002 cosmo REV. **KL197T02** 1 SHEET 7 OF 9 **ELECTRONICS CORPORATION** Package Dimensions of Reel 1.50 60.0±0. Ø178± et4U.co DataShe Ø13.5±0.5 9.0±0.5 12.0±0.5 178.00±1 Unit: mm Packaging **Product lable** CUSTOMER: CUSTOMER P/N: DEVICE TYPE: BIN: COLOR RANK: LOT NO: QTY: CAUTION: After open the aluminum laminate bag the lamps should be storage in the Follow condition Temperautre:5 to 30 $\,^\circ\!\mathrm{C}$,Humidity:70%,Storage time:72hrs max Backing condition : If backing is necessary , we recommended the backing condition is $60 + -5^{\circ}$ 10hours

