

### **ROUND TYPE LED LAMPS**

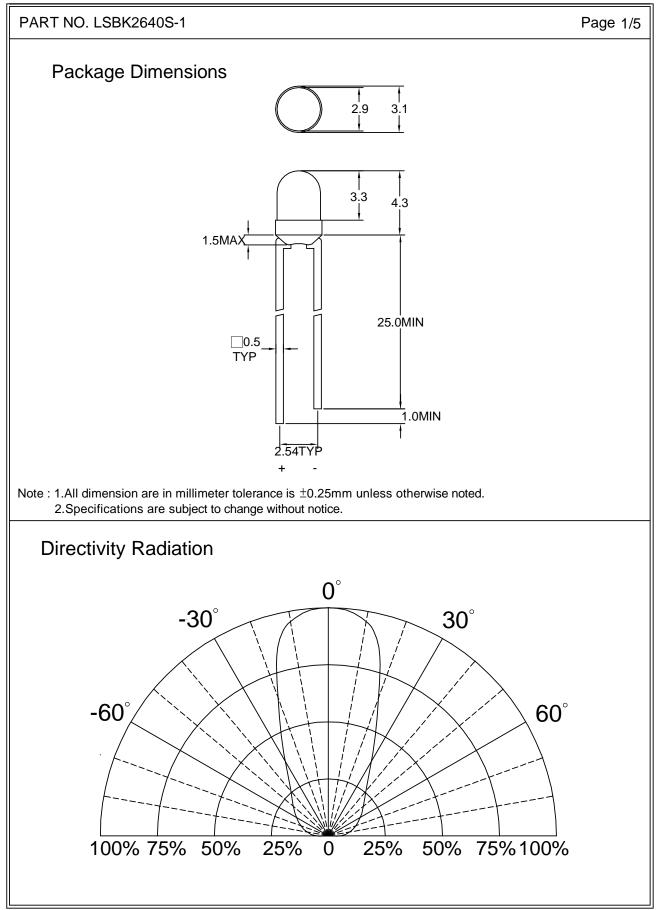


## LSBK2640S-1

# DATA SHEET

DOC. NO	:	QW0905-LSBK2640S-1		
REV.	:	В		
DATE	:	26 - Mar 2007		







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

Parameter	Symbol	Ratings	UNIT	
Parameter	Symbol	SBKS		
Forward Current	lF	30	mA	
Peak Forward Current Duty 1/10@10KHz	IFP	100	mA	
Power Dissipation	PD	120	mW	
Reverse Current @5V	lr	50	$\mu$ A	
Electrostatic Discharge( * )	ESD	500	V	
Operating Temperature	Topr	-20 ~ +80	°C	
Storage Temperature	Tstg	-30 ~ +100	°C	

★ Static Electricity or power surge will damage the LED. Use of a conductive wrist band or anti-electrosatic glove is recommended when handing these LED. All devices, equipment and machinery must be properly grounded.

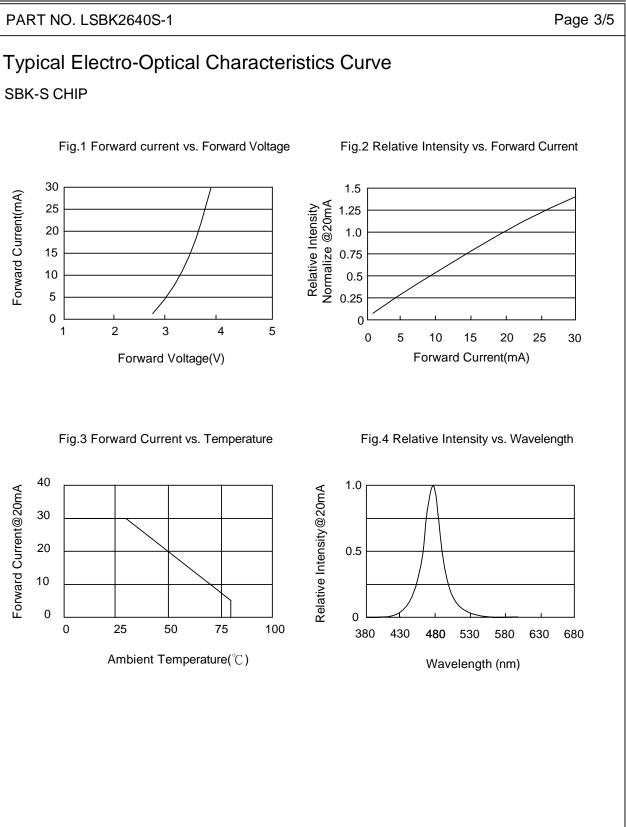
Typical Electrical & Optical Characteristics (Ta=25 °C)

PART NO	MATERIAL	COLOR		Dominant wave length $\lambda$ Dnm	Spectral halfwidth $\triangle \lambda$ nm	Forward voltage @20mA(V)		Luminous intensity @20mA(mcd)		Viewing angle 2 ∂ 1/2 (deg)
		Emitted	Lens			Тур.	Max.	Min.	Тур.	
LSBK2640S-1	InGaN/SiC	Blue	Blue Diffused	475	26	3.5	4.2	120	220	50

Note : 1.The forward voltage data did not including  $\pm 0.1V$  testing tolerance. 2. The luminous intensity data did not including  $\pm 15\%$  testing tolerance.



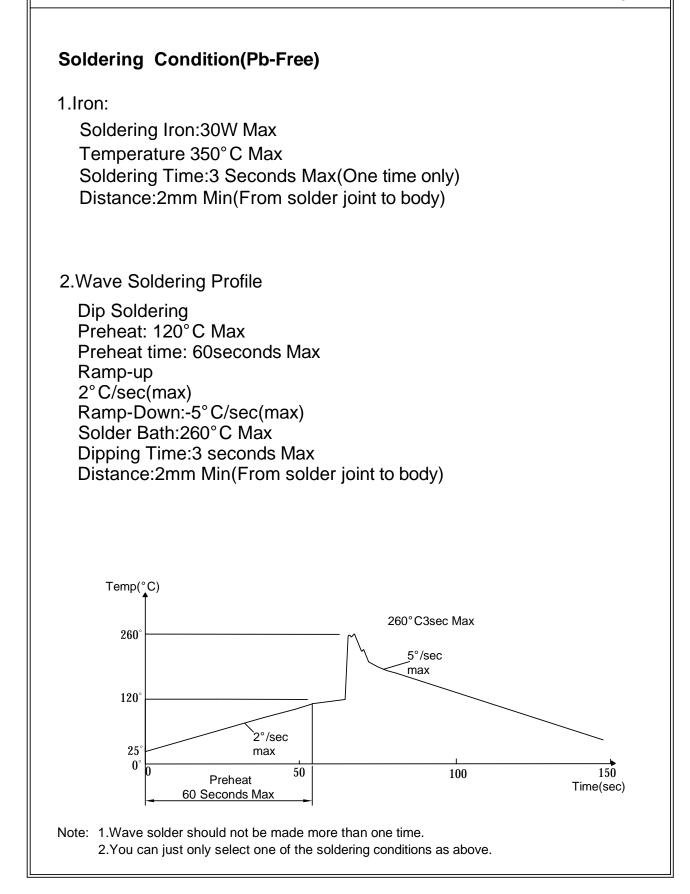
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Reliability Test:

Test Item	Test Condition	Description	Reference Standard
Operating Life Test	1.Under Room Temperature 2.If=20mA 3.t=1000 hrs (-24hrs, +72hrs)	This test is conducted for the purpose of detemining the resistance of a part in electrical and themal stressed.	MIL-STD-750: 1026 MIL-STD-883: 1005 JIS C 7021: B-1
High Temperature Storage Test	1.Ta=105 ℃±5℃ 2.t=1000 hrs (-24hrs, +72hrs)	The purpose of this is the resistance of the device which is laid under condition of high temperature for hours.	MIL-STD-883:1008 JIS C 7021: B-10
Low Temperature Storage Test	1.Ta=-40 ℃±5℃ 2.t=1000 hrs (-24hrs, +72hrs)	The purpose of this is the resistance of the device which is laid under condition of low temperature for hours.	JIS C 7021: B-12
High Temperature High Humidity Test	1.Ta=65 °C±5 °C 2.RH=90 %~95% 3.t=240hrs ±2hrs	The purpose of this test is the resistance of the device under tropical for hours.	MIL-STD-202:103B JIS C 7021: B-11
Thermal Shock Test	1.Ta=105 ℃±5℃&-40℃±5℃ (10min) (10min) 2.total 10 cycles	The purpose of this is the resistance of the device to sudden extreme changes in high and low temperature.	MIL-STD-202: 107D MIL-STD-750: 1051 MIL-STD-883: 1011
Solder Resistance Test	1.T.Sol=260 °C ±5 °C 2.Dwell time= 10 ±1sec.	This test intended to determine the thermal characteristic resistance of the device to sudden exposures at extreme changes in temperature when soldering the lead wire.	MIL-STD-202: 210A MIL-STD-750: 2031 JIS C 7021: A-1
Solderability Test	1.T.Sol=230 ℃±5℃ 2.Dwell time=5±1sec	This test intended to see soldering well performed or not.	MIL-STD-202: 208D MIL-STD-750: 2026 MIL-STD-883: 2003 JIS C 7021: A-2