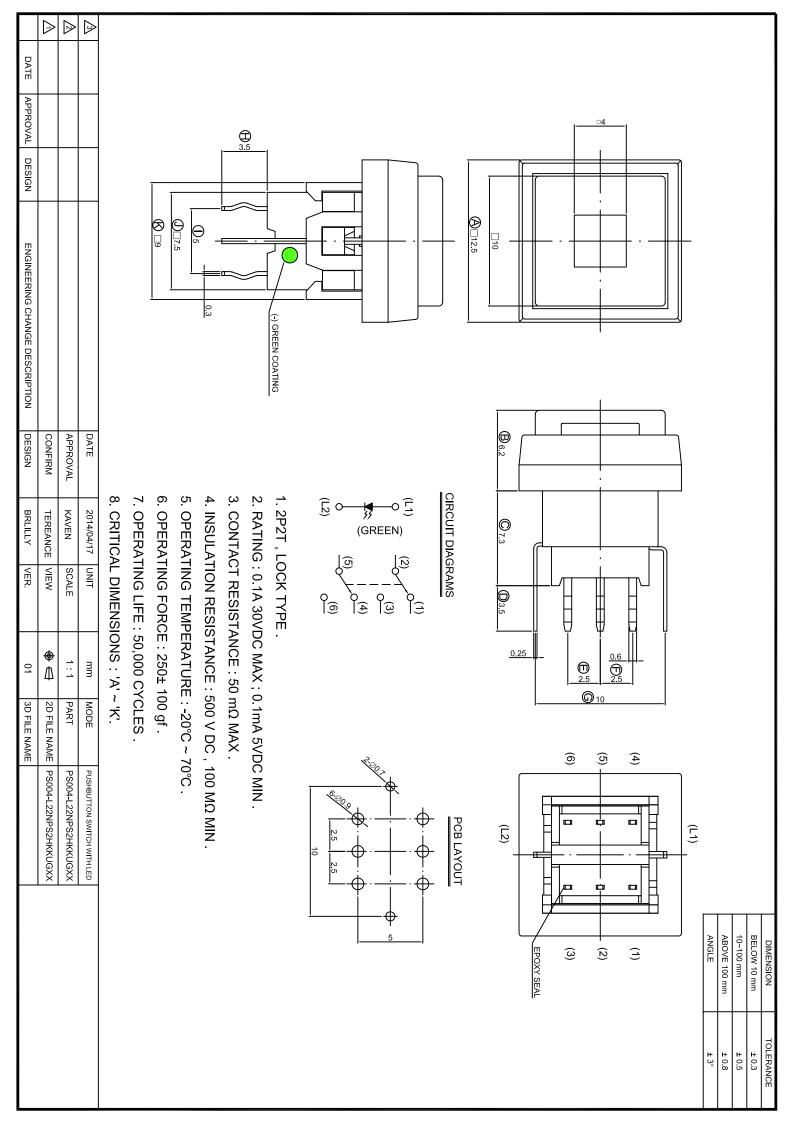
APPROVAL SHEET

DESCRIPTION: PUSH BUTTON SWITCH LED

PART NO: PS004-L22NPS2HKKUGXX

	CUSTOMER'S PART NO:
CUSTOMER SIGNATURE	COMMENTS

APPROVAL	REVIEW	PREPARE
Kaven	Tereance	Gina



SPECIFICATIONS OF PS004 SERIES

PUSH BUTTON SWITCH

- 1. POLE POSITION : DPDT
- 2. OPERATING TEMPERATURE RANGE : -20° C ~ 70° C
- 3. RATING : 0.1A 30 VDC Max / 0.1mA 5 VDC Min .
- 4. ELECTRICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
4-1	CONTACT	DC 1.5V 100 mA, BY METHOD OF VOLTAGE	$50 \text{ m}\Omega$ MAX.
	RESISTANCE	DROP.	
4-2	INSULATION	DC 500V	100 M Ω MIN.
	RESISTANCE		
4-3	DIELECTRIC	AC 500V FOR 1 MINUTE	BREAKDOWN IS
	STRENGTH		NOT ALLOWABLE

5. MECHANICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
5-1	OPERATING	ALONG THE DIRECTION TO APPLY A	250±100 gf
	FORCE	STATIC LOAD AT END OF ACTUATOR.	
5.2	TRAVEL	1. FULL TRAVEL	$1.1.5 \pm 0.3 \text{ mm}$
		2. CONTACT TRAVEL	$2.0.7 \pm 0.3 \text{ mm}$
5-3	SOLDERABILITY	245±5℃ IN 5 SECONDS	SOLDER COVERAGE 75%
			MIN.

6. SOLDERING HEAT RESISTANCE

- 6.1 MANUAL: $300\pm5^{\circ}$ C IN 3 SECONDS.
- 6.2 WAVE SOLDERING: $260\pm5^{\circ}$ C IN 3 SECONDS.

7. DURABILITY:

OPERATING LIFE WITH LOAD AFTER 50,000 CYCLES AT SPEED 15 ~ 20 CYCLES / MINUTE, 1.5 VDC 100 mA RESISTANCE LOAD, AFTER THAT THE SWITCH SHOULD MEET FOLLOWING SPECIFICATIONS.

- 7.1 CONTACT RESISTANCE : $100 \text{ m}\Omega$ MAX.
- 7.2 OPERATING FORCE : WITHIN THE RANGE ±30% OF SPECIFICATION.
- 7.3 INSULATION RESISTANCE : 500V DC 100 M Ω MIN.
- 7.4 DIELECTRIC STRENGTH : 500V AC FOR 1 MINUTE, BREAKDOWN IS NOT ALLOWABLE.

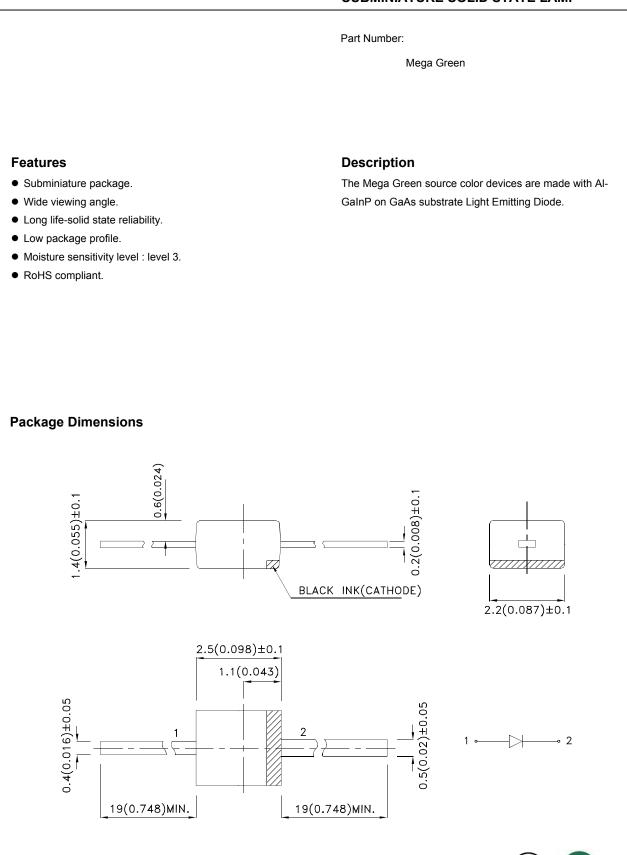
8. ENVIRONMENTAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
8-1	COLD	-20±2°C FOR 96 HOURS	1. SWITCH SHOULD MEET
			REQUIREMENTS OF ITEM 4.
			2. MECHANINCAL PERFORMANCE
			SHOULD REMAIN TO NORMAL.
8-2	DRY HEAT	70℃±2℃ FOR 96 HOURS	1. SWITCH SHOULD MEET
			REQUIREMENTS OF ITEM 4.
			2. MECHANINCAL PERFORMANCE
			SHOULD REMAIN TO NORMAL.
8-3	DAMP HEAT	40°C±2°C 90% ~ 95%RH FOR	1. SWITCH SHOULD MEET
		96 HOURS	REQUIREMENTS OF ITEM 4.
			2. MECHANINCAL PERFORMANCE
			SHOULD REMAIN TO NORMAL.

9. LED SPECIFICATIONS

LED SPECIFICATIONS WILL BE FURNISHED DEPENDING ON DIFFERENT LED COLOR DEMAND.

SUBMINIATURE SOLID STATE LAMP



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ±0.25(0.01") unless otherwise noted.

Lead spacing is measured where the leads emerge from the package.
 The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

Selection Guide						
Part No.	Dice	Lens Type		/ (mcd) [/ @ 20mA		Viewing Angle [1]
			Min.	Тур.	Max.	201/2 .
	Mega Green (AlGaInP)	Water Clear	20	55	100	140°

Notes:

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
 Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

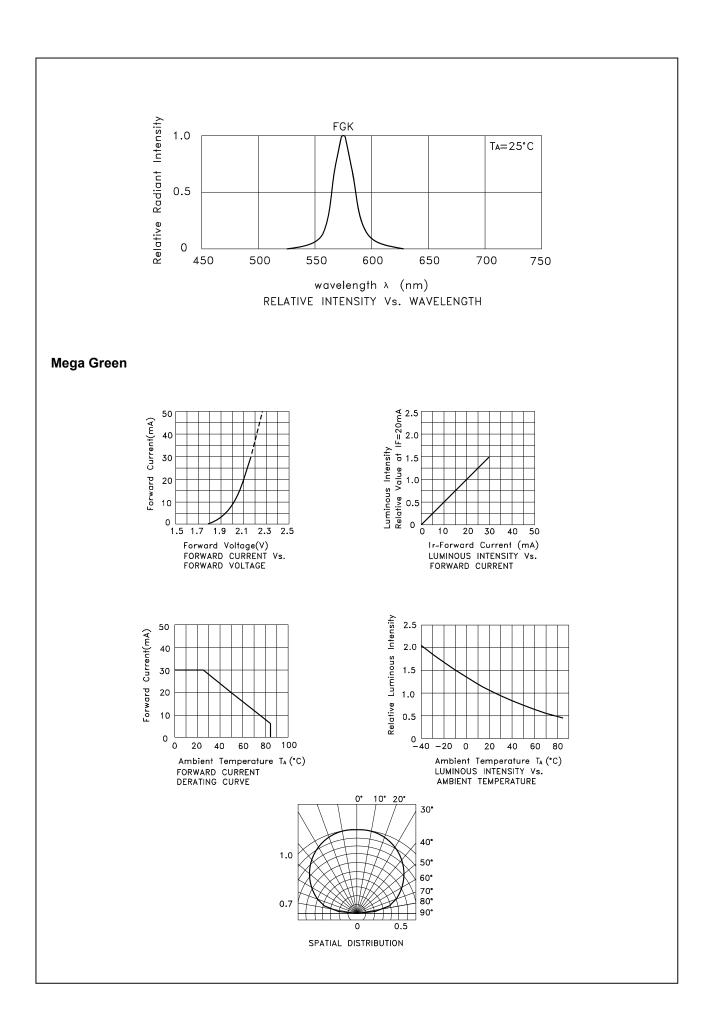
Symbol	Parameter	Device	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Mega Green		574		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Mega Green	561	567	571	nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Mega Green		20		nm	IF=20mA
С	Capacitance	Mega Green		15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Mega Green	1.6	2.1	2.5	V	IF=20mA
IR	Reverse Current	Mega Green			10	uA	VR = 5V

Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Mega Green	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Electrostatic Discharge Threshold (HBM)	3000	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width. 2. 2mm below package base. 3. 5mm below package base.



		3D FILE NAME	01 3D F		BRLILLY VER.	DESIGN		DESCRIPTION	ENGINEERING CHANGE DESCRIPTION	DESIGN	APPROVAL	DATE	
	PS004-L22NPS2HKKUGXX	2D FILE NAME	 	~	TEREANCE VIEW	CONFIRM	COI						\triangleright
	PS004-L22NPS2HKKUGXX	RL	1 : 1 PART	τE	KAVEN	APPROVAL	APF						\bowtie
	PUSHBUTTON SWITCH WITH LED		mm MODE	-	2014/04/17 UNIT	TE	DATE						
CE/2014/11738; CANEC1401599601	SILVER PLATING CE	SILVI	BRASS	2		TERMINAL	13						
CE/2014/11747; CANEC1401599601	SILVER CLAD CE		PHOSPHOR BRONZE	2		CLIP	12						
CE/2014/25430; CANEC1403097001		BLACK	PA66+33%G	2	BOARD WITH TERMINAL	BOARD W	11						
CE/2014/25430; CANEC1403097001		BLACK	PA66+33%G	<u> </u>	ME	BASE FRAME	10						
CE/2013/70869A	CE		STAINLESS STEEL	<u> </u>		LOCK PIN	9			<i>«</i>			
F690101-LF-CTSAYAA14-03884	F6S		STAINLESS STEEL			SPRING	œ						
CE/2014/25430;CANEC1311693101;CANEC1311693102		WHITE	PA66+33%G	<u> </u>	יד 	ACTUATOR	7						
CE/2014/25430; CANEC1403097001		BLACK	PA66+33%G	<u> </u>		COVER	6						
SZHH0084529102S1;SZHH00853916	ULTRA GREEN SZ	ULTF				LED	ъ						
CE/2014/25430;CANEC1311693101;CANEC1311693102		WHITE	PA66+33%GF	<u> </u>		KNOB	4		L		—		
TWNC00277207S1	WHITE TRANSPARENT TW	TIHW	PC-143R111	<u> </u>	FLUORESCENT PLATE	FLUORES	ω		_		-1		
CE/2014/25430; CANEC1403097001		BLACK	PA66+33%GF	<u> </u>	ME	KNOB FRAME	2				_		
TWNC00277207S1		BLACK	PC-143R111	<u> </u>	R	LED COVER	<u> </u>						
ROHS REPORT No.	SPECIAL DEAL Rol	SPEC	MATERIAL	QTY	Ē	PART NAME	NO.						
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