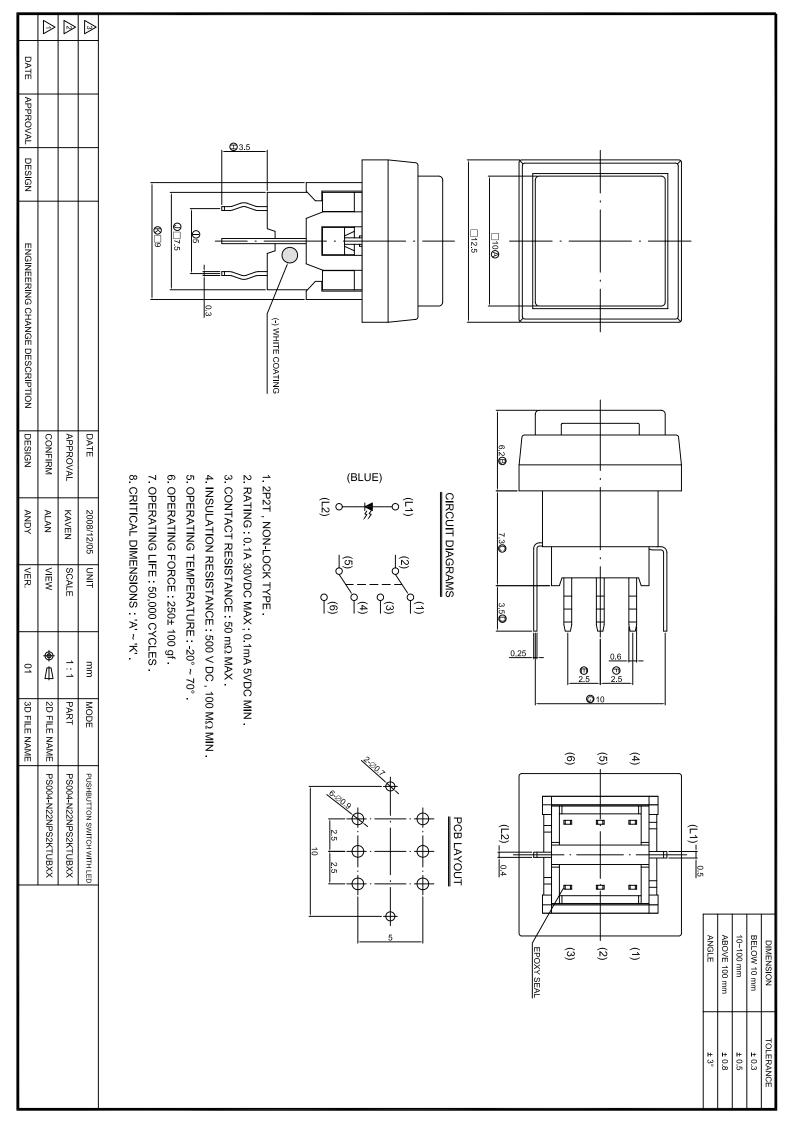
APPROVAL SHEET

DESCRIPTION:	DESCRIPTION: PUSH BUTTON SWITCH LED					
PART NO:	PS004-N22NI	PS2KTUBXX				
CUSTOMER:MARUT	rsu	CUSTOMER'S PART NO:				
CUSTOMER SIGNAT	URE	COMMENTS				
			_			

APPROVAL	REVIEW	PREPARE		
Kaven	Tereance	Gina		



SPECIFICATIONS OF PS004 SERIES <u>PUSH BUTTON SWITCH</u>

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 mΩ MAX.
	RESISTANCE	DROP.	
4-2	INSULATION	DC 500V	100 MΩ MIN.
	RESISTANCE		
4-3	DIELECTRIC	AC 500V FOR 1 MINUTE	BREAKDOWN IS
	STRENGTH		NOT ALLOWABLE

5. MECHANICAL PERFORMANCE

			MIN.
5-3	SOLDERABILITY	245±5℃ IN 5 SECONDS	SOLDER COVERAGE 75%
		2. CONTACT TRAVEL	$2.\ 0.7 \pm 0.3\ \mathrm{mm}$
5.2	TRAVEL	1. FULL TRAVEL	1. $1.5 \pm 0.3 \text{ mm}$
	FORCE	STATIC LOAD AT END OF ACTUATOR.	
5-1	OPERATING	ALONG THE DIRECTION TO APPLY A	250±100 gf
	ITEM	TEST CONDITIONS	CRITERIA

6. SOLDERING HEAT RESISTANCE

6.1 MANUAL: 300±5°C IN 3 SECONDS.

6.2 WAVE SOLDERING: 260±5°C IN 3 SECONDS.

7. DURABILITY:

OPERATING LIFE WITH LOAD AFTER 50,000 CYCLES AT SPEED 15 \sim 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℃ FOR 96 HOURS	1. SWITCH SHOULD MEET
			REQUIREMENTS OF ITEM 4.
			2. MECHANINCAL PERFORMANCE
			SHOULD REMAIN TO NORMAL.
8-2	DRY HEAT	70°C±2°C 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 ELIBNISH

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

SUBMINIATURE SOLID STATE LAMP

ATTENTION

OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE **DEVICES**

Part Number:

Blue

Features

- Subminiature package.
- Wide viewing angle.
- Long life-solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- Low current IF=5mA operating.
- RoHS compliant.

Description

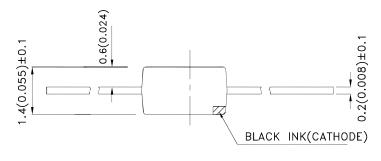
The Blue source color devices are made with InGaN Light Emitting Diode.

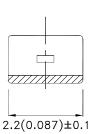
Static electricity and surge damage the LEDS.

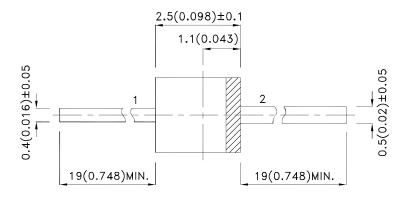
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ 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	Iv (mcd) [2] @ 5mA		Viewing Angle [1]	
		,	Min.	Тур.	Max.	201/2
	Blue (InGaN)	Water Clear	10	25	60	140°

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

Electrical / Optical Characteristics at TA=25°C

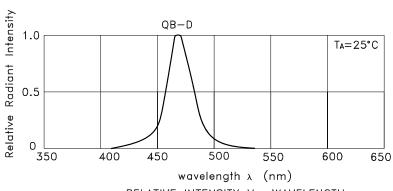
Symbol Parameter		Device	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue		468		nm	IF=5mA
λD [1]	Dominant Wavelength	Blue	458	470	477	nm	IF=5mA
Δλ1/2	Spectral Line Half-width	Blue		25		nm	IF=5mA
С	Capacitance	Blue		100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	2.5	2.8	4	V	IF=5mA
lr	Reverse Current	Blue			50	uA	VR=5V

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

Absolute Maximum Ratings at TA=25°C

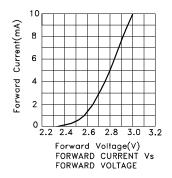
Absolute Maximum rutings at TA 25 5					
Parameter	Blue	Units			
Power dissipation	120	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	150	mA			
Reverse Voltage	5	V			
Electrostatic Discharge Threshold (HBM)	250	V			
Operating / Storage Temperature	ing / Storage Temperature -40°C To +85°C				
Lead Solder Temperature[2]	260°C For 3 Seconds				
Lead Solder Temperature[3]	260°C For 5 Seconds				
Lead Solder Temperature[S]	200 G F 01 3 Seconds				

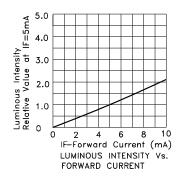
- Notes:
 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
 2. 2mm below package base.
 3. 5mm below package base.

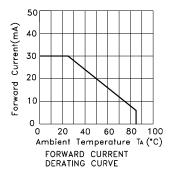


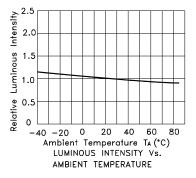
RELATIVE INTENSITY Vs. WAVELENGTH

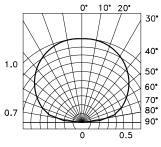
Blue











SPATIAL DISTRIBUTION

