APPROVAL SHEET

PUSH BUTTON SWITCH LED

DESCRIPTION:

PART NO:	PS004-L2	2NPS1KTUGXX	
CUSTOMER: Ma	artsu	CUSTOMER'S PART NO:	
CUSTOMER SIC	SNATURE	COMMENTS	

REVIEW

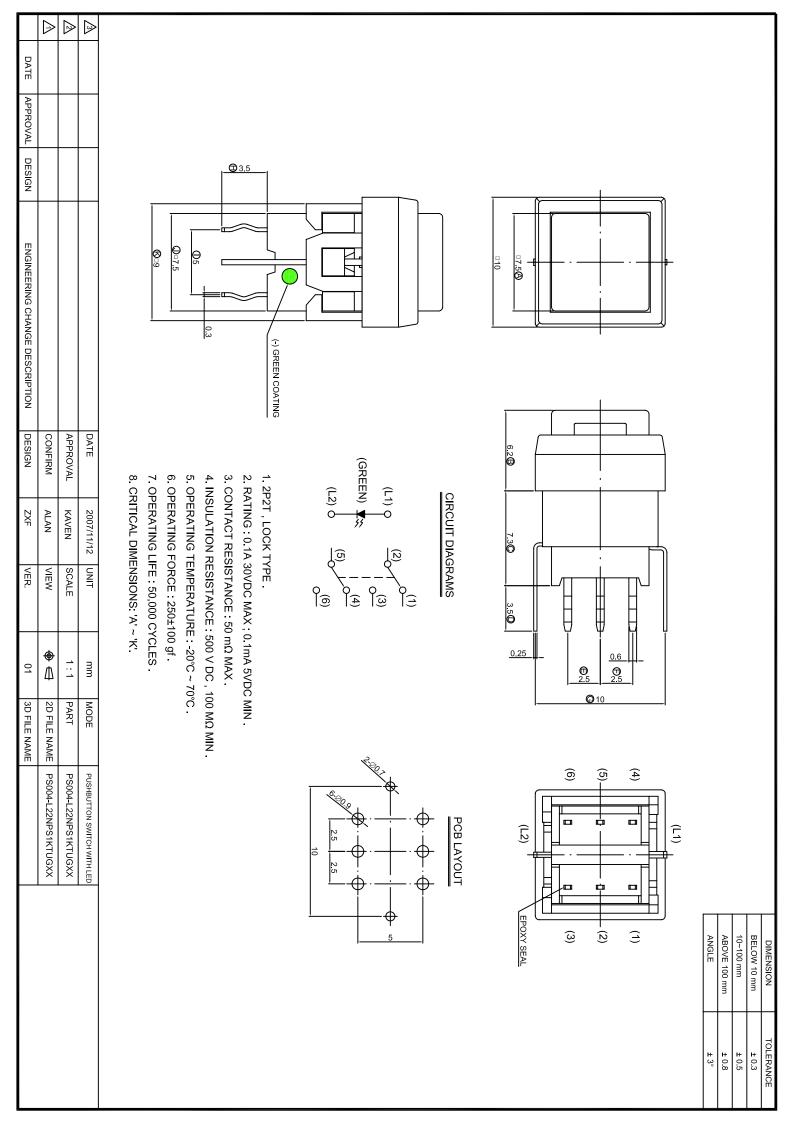
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SPECIFICATIONS OF PS004 SERIES <u>PUSH BUTTON SWITCH</u>

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

Part Number:

Mega Green

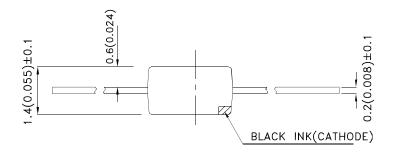
Features

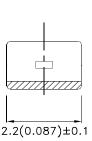
- Subminiature package.
- Wide viewing angle.
- Long life-solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- RoHS compliant.

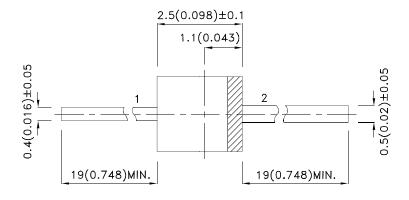
Description

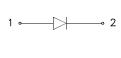
The Mega Green source color devices are made with Al-GaInP on GaAs substrate Light Emitting Diode.

Package Dimensions









- All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.

 4. 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) [2 @ 20mA	-	Viewing Angle [1]
		2.	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. 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	Mega Green		574		nm	IF=20mA
λD [1]	Dominant Wavelength	Mega Green	561	567	571	nm	IF=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
lR	Reverse Current	Mega Green			10	uA	V _R = 5V

Notes:

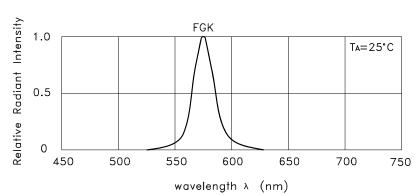
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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	

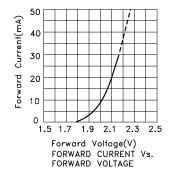
Notes:

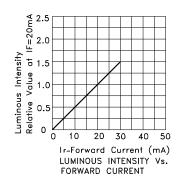
- 1/10 Duty Cycle, 0.1ms Pulse Width.
 2. 2mm below package base.
 5mm below package base.

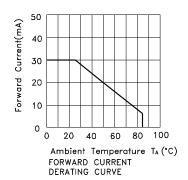


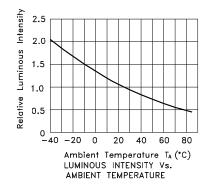
RELATIVE INTENSITY Vs. WAVELENGTH

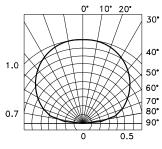
Mega Green











SPATIAL DISTRIBUTION

	ULTRA GREEN BLACK BLACK SILVER CLAD 0.5 µm SILVER PLATING 1 µm PUSH SWITCH WITH LED PS004-122NPS1KTUOXX ME PS004-122NPS1KTUOXX MATERIAL LIST	1:1 PART 2D FILE NAME	ф Д <u>т</u>	VIEW	ALAN	CONFIRM						Ī
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CE/2014/25430; CANEC1403097001 CE/2014/25430; CANEC1403097001 CE/2014/25430; CANEC1311693101; CANEC1311693102 F690101-LF-CTSAYAA14-03884 SZHH0084529102S1; SZHH00853916 CE/2014/25430; CANEC1403097001 CE/2014/25430; CANEC1403097001 CE/2014/1747; CANEC1401599601	ULTRA GREEN BLACK BLACK SILVER CLAD 0.5 µm		2 BRASS	2	, (-	2 TERMINAL	12					
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	BLACK		1 PA66+33% GF		AME	KNOB FRAME	4					
CE/2014/25430;CANEC1311693101;CANEC1311693102	WHITE		1 PA66+33%GF	_		KNOB	ω					
TWNC00277207S1	WHITE TRANSPARENT		1 PC-143R111	1	FLUORESCENT PLATE		2					
TWNC00277207S1	TRANSPARENT		1 PC-143R111	1	ĖR	LED COVER				}		
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