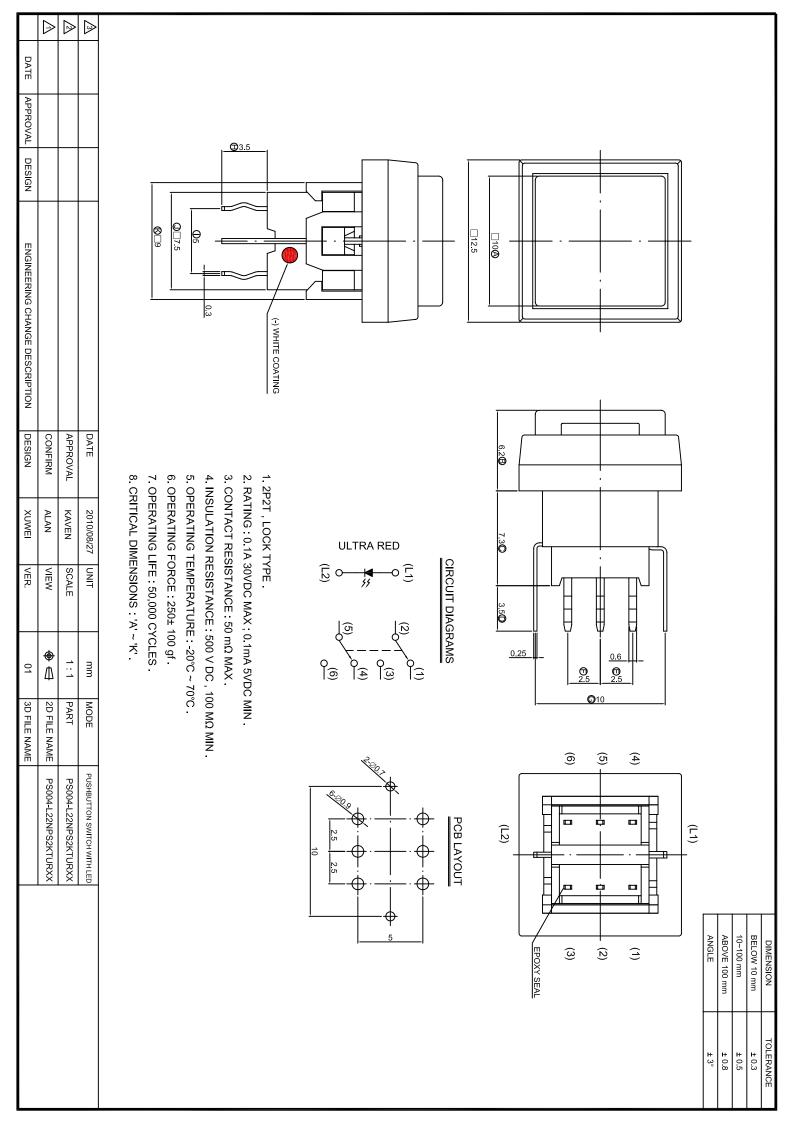
APPROVAL SHEET

DESCRIPTION	- PUSIT BUTT	ON SWITCH LED	
PART NO:	PS004-L22N	IPS2KTURXX	
CUSTOMER: Mart	su	CUSTOMER'S PART NO:	
CUSTOMER SIGN	JATURE	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 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

	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±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:

Hyper Red

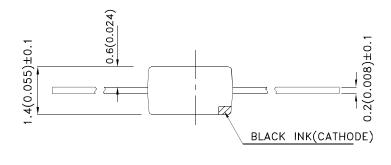
Features

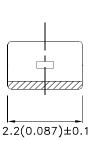
- Subminiature package.
- Wide viewing angle.
- Long life-solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- RoHS compliant.

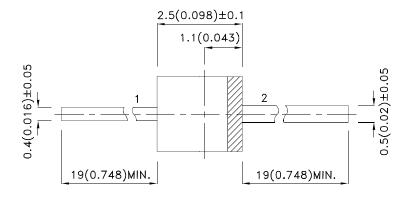
Description

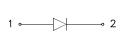
The Hyper Red source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions

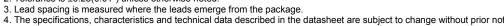








- All dimensions are in millimeters (inches).
 Tolerance is ±0.25(0.01") unless otherwise noted.







Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA			Viewing Angle [1]
			Min.	Тур.	Max.	201/2
	Hyper Red (AlGaInP)	Water Clear	80	200	400	140°

- 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	Hyper Red		650		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red	620	630	640	nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red		28		nm	IF=20mA
С	Capacitance	Hyper Red		35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.6	1.95	2.5	V	IF=20mA
lr	Reverse Current	Hyper Red			10	uA	V _R = 5V

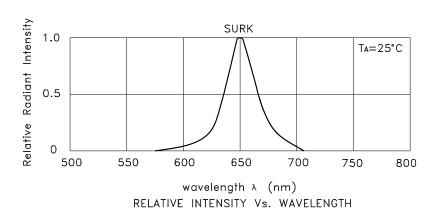
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	185	mA	
Reverse Voltage	5	V	
Electrostatic Discharge Threshold (HBM)	3000	V	
Operating/Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	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.



Hyper Red

