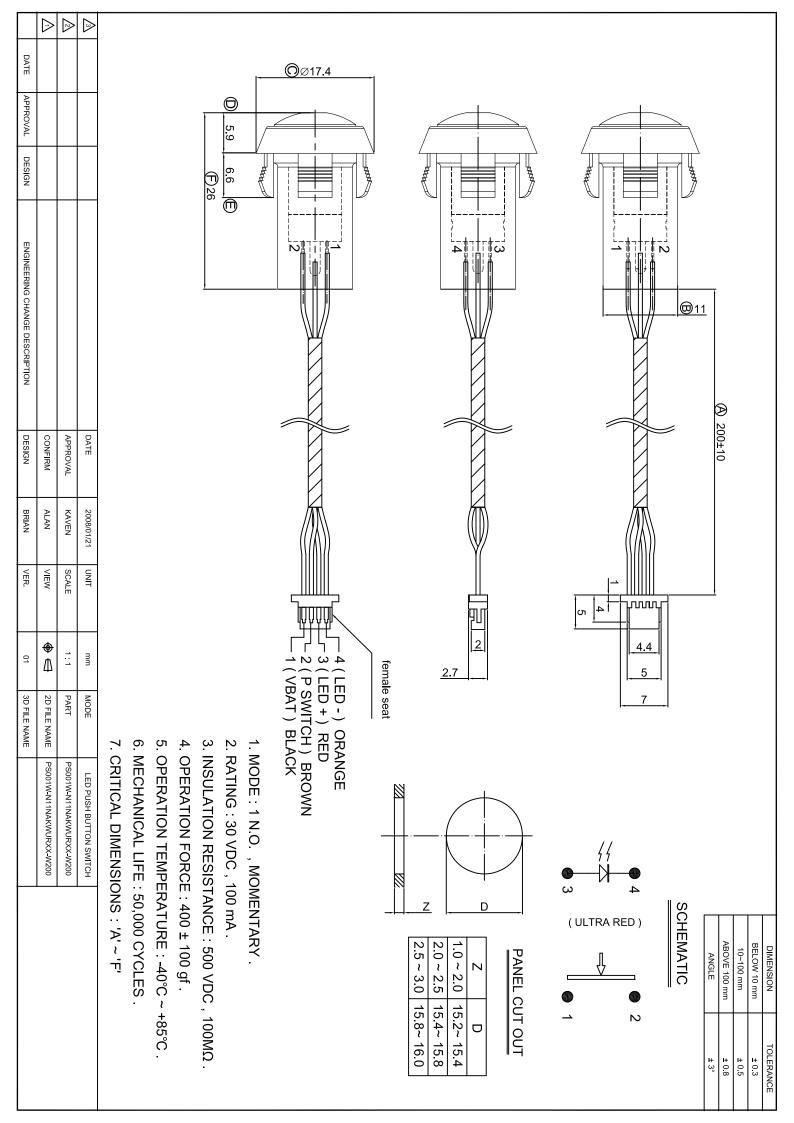
APPROVAL SHEET

DESCRIPTION:	PUSH BUTTO	ON SWITCH WITH	-
PART NO:	PS001W-N11	NAKWUGXX-W200	_
CUSTOMER:MARUT	SU	CUSTOMER'S PART NO:	
CUSTOMER SIGNAT	`URE	COMMENTS	

APPROVAL	REVIEW	PREPARE
Kaven	Tereance	Gina



SPECIFICATIONS OF PS001W SERIES PUSH BUTTON SWITCH WITH LED

1. POLE - POSITION: 1P1T, MOMENTARY TYPE

2. OPERATING TEMPERATURE RANGE : -40°C ~ 85 °C

3. RATING: 30V DC 0.1A

4. ELECTRICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
4-1	CONTACT	DC 1.5V 100mA, BY METHOD OF	50 mΩ MAX.
	RESISTANCE	VOLTAGE DROP	
4-2	INSULATION RESISTANCE	DC 500V	100 MΩ MIN.
4-3	DIELECTRIC STRENGTH	AC 500V FOR 1 MINUTE	BREAKDOWN IS NOT ALLOWABLE

5. MECHANICAL PERFORMANCE

	ITEM	TEST CONDITIONS	CRITERIA
5-1	OPERATING	ALONG OPERATING DIRECTION	400±100gf
	FORCE	TO APPLY A STATIC LOAD AT	
		END OF ACTUATOR TO DEPRESS	
		UNTIL IT STOPS MOVEMENT	
5-2	ROBUSTNESS OF	200 gf FOR 1 MINUTE	TERMINAL COULD BE
	TERMINAL		BENT BUT LOOSENED
			TERMINAL OR BASE
			FRAME BROKEN IS NOT
			ALLOWABLE

5-3	ROBUSTNESS OF	1.	TO APPLY A STATIC FORCE 2	ACTUATOR BROKEN OR
	ACTUATOR		Kg VERTICALLY ON THE TOP	ANY UNSUAL
			OF ACTUATOR, DEPRESS IT	APPEARANCE OCCURRED
		2.	TO APPLY A STATIC FORCE	ON SWITCH
			300 g VERTICALLY AT 1 mm	CONSTRUCTION IS NOT
			BELOW TOP OF THE	ALLOWABLE
			ACTUATOR, PULL IT	
		3.	TO APPLY A STATIC FORCE	
			300 g HORIZONTALLY FROM	
			ANY DIRECTION AT 1 mm	
			BELOW TOP OF THE	
			ACTUATOR, PURH IT	
5-4	SOLDERABILITY	26	0±5°C IN 3 SECONDS	SOLDER COVERAGE 75%
				MIN.

6. RESISTANCE OF SOLDERING HEAT

6-1 MANUAL SOLDERING: 300±5℃ IN 3 SECONDS

6-2 DIP SOLDERING: $260\pm5^{\circ}$ C IN 3 SECONDS

7. DURABILITY

OPERATING LIFE WITHOUT LOAD AFTER 50,000 CYCLES

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 10 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	-40±2℃ FOR 48 HOURS	1. IT SHOULD MEET REQUIREMENTS	
			OF ITEM 4 °	
			2. MECHANICAL PERFORMANCE	
			SHOULD REMAIN TO NORMAL •	

	DRY HEAT DAMP HEAT	85°C±2°C FOR 48 HOURS 40°C±2°C 90% ~ 95% RH	2.	CONTACT RESISTANCE SHOULD BE LESS THAN $100 \text{ m}\Omega$ $^{\circ}$ IT SHOULD MEET REQUIREMENTS OF 4-2 AND 4-3 $^{\circ}$ MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL $^{\circ}$ CONTACT RESISTANCE SHOULD BE
		FOR 96 HOURS	2.	LESS THAN $100 \text{ m}\Omega$ \circ INSULATION RESISTANCE SHOULD BE HIGHER THAN $10 \text{ M}\Omega$ \circ IT SHOULD MEET DIELECTRIC STRENGTH REQUIREMENT OF 4-3 \circ MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL \circ
8-4	DEGREE OF PORTECTION	THE PRODUCT IS PLACED 1 M DEEP IN WATER (IF THE PRODUCT IS 850 mm MAX. IN HEIGHT) FOR 30 MIN.	 2. 3. 	IT SHOULD MEET REQUIREMENTS OF ITEM 4 ° MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL ° RESISTS THE PENETRATION OF WATER WHEN THE PRODUCT IS PLACED UNDERWATER AT SPECIFIED PRESSURE FOR A SPECIFIED TIME °

9. LED SPECIFICATIONS WILL BE FURNISHED DEPENDING ON DIFFERENT LED COLOR DEMAND A SINGLE BIN CANNOT BE ORDERED. PLEASE CONTACT US IN ADVANCE. IF YOU NEED A PARTICULAR BIN SORTING BEFORE PLACING YOUR ORDER TO CLARIFY THE LEAD TIME, MOQ AND PRICING

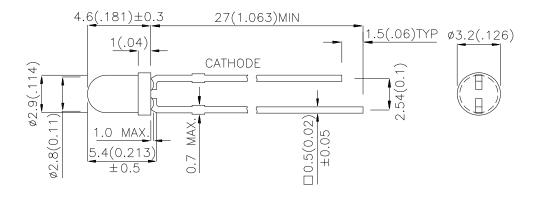
Features

- •LOW POWER CONSUMPTION.
- •POPULAR T-1 DIAMETER PACKAGE.
- •GENERAL PURPOSE LEADS
- •RELIABLE AND RUGGED.
- •LONG LIFE SOLID STATE RELIABILITY.
- •AVAILABLE ON TAPE AND REEL.
- •RoHS COMPLIANT.

Description

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

Package Dimensions



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

 3. Lead spacing is measured where the lead emerge from the package.

 4. Specifications are subject to change without notice.





Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		@ 20m A Anglo [1]		Viewing Angle [1]
			Min.	Тур.	201/2		
	HYPER RED (InGaAIP)	WATER CLEAR	380	900	50°		

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

Electrical / Optical Characteristics at Ta=25°C

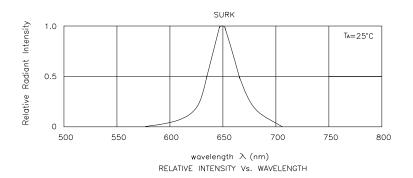
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	650		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Red	635		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	IF=20mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.95	2.5	V	IF=20mA
lr	Reverse Current	Hyper Red		10	uA	VR = 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		
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			

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



Hyper Red

