

Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
ACSC02-41SYKWA-F01	Super Bright Yellow (InGaAlP)	WHITE DIFFUSED	8000	34000	Common Cathode, Rt. Hand Decimal.

Note:

1. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Super Bright Yellow	590		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Super Bright Yellow	590		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Yellow	20		nm	I _F =20mA
C	Capacitance	Super Bright Yellow	20		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Super Bright Yellow	2.0	2.5	V	I _F =20mA
I _R	Reverse Current	Super Bright Yellow		10	uA	V _R =5V

Notes:

1.Wavelength: +/-1nm.

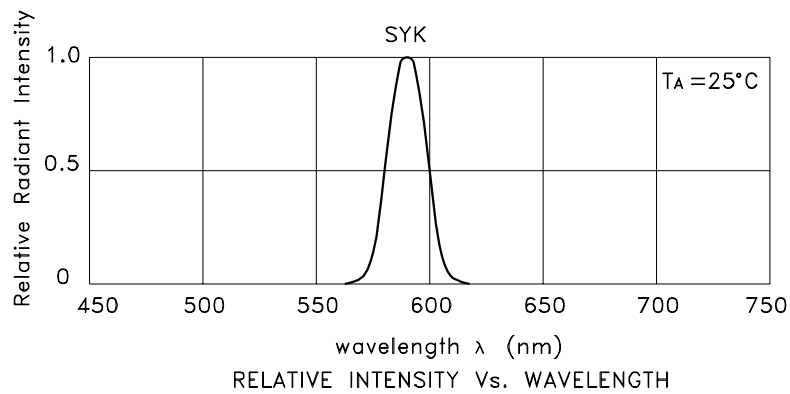
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

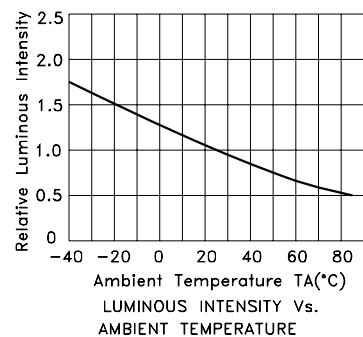
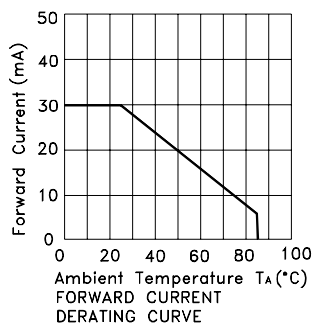
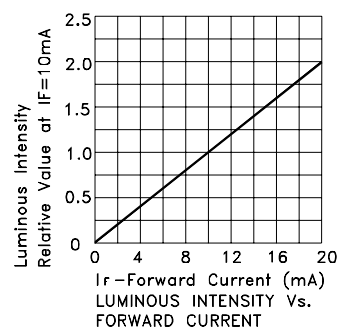
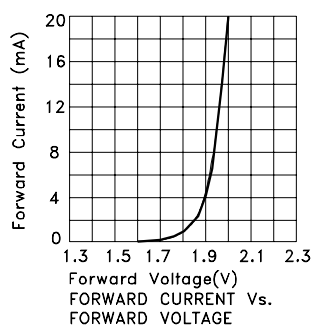
Parameter	Super Bright Yellow	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	175	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

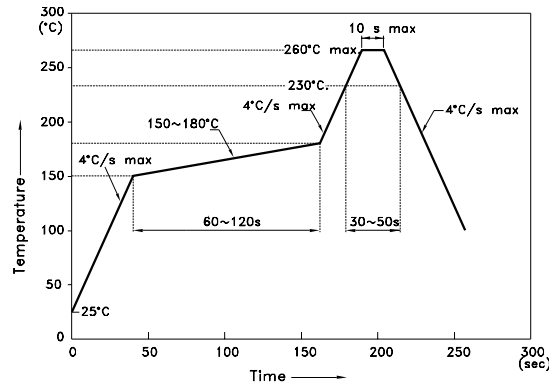


Super Bright Yellow ACSC02-41SYKWA-F01



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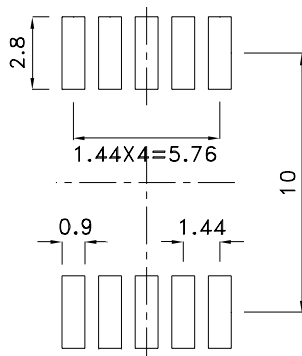
Reflow Soldering Profile For Lead-free SMT Process.



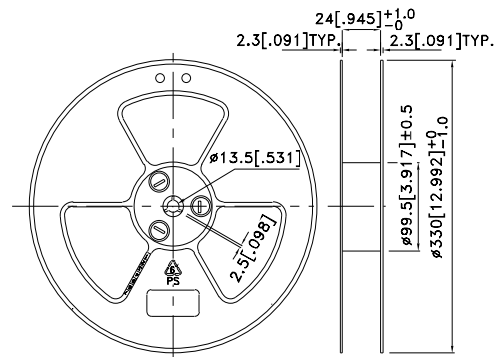
NOTES:

1. We recommend the reflow temperature $245^{\circ}\text{C} (+/-5^{\circ}\text{C})$. The maximum soldering temperature should be limited to 260°C .
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

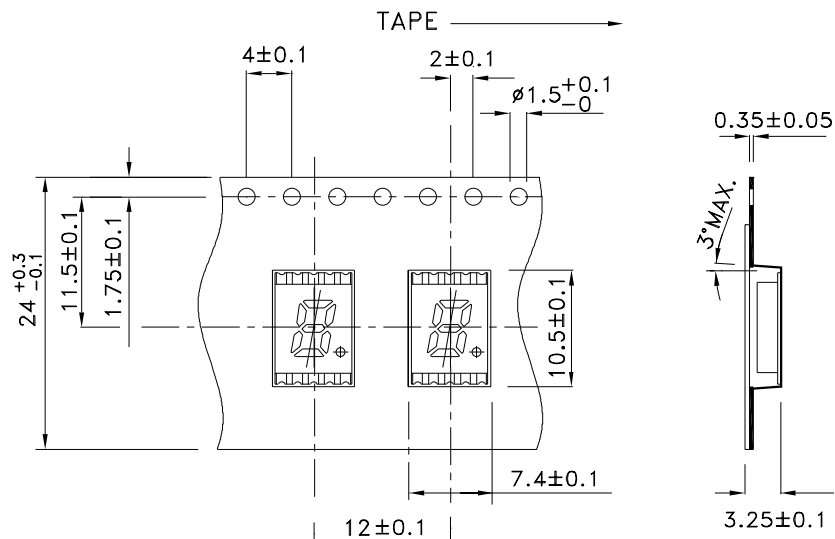
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.15)



Reel Dimension

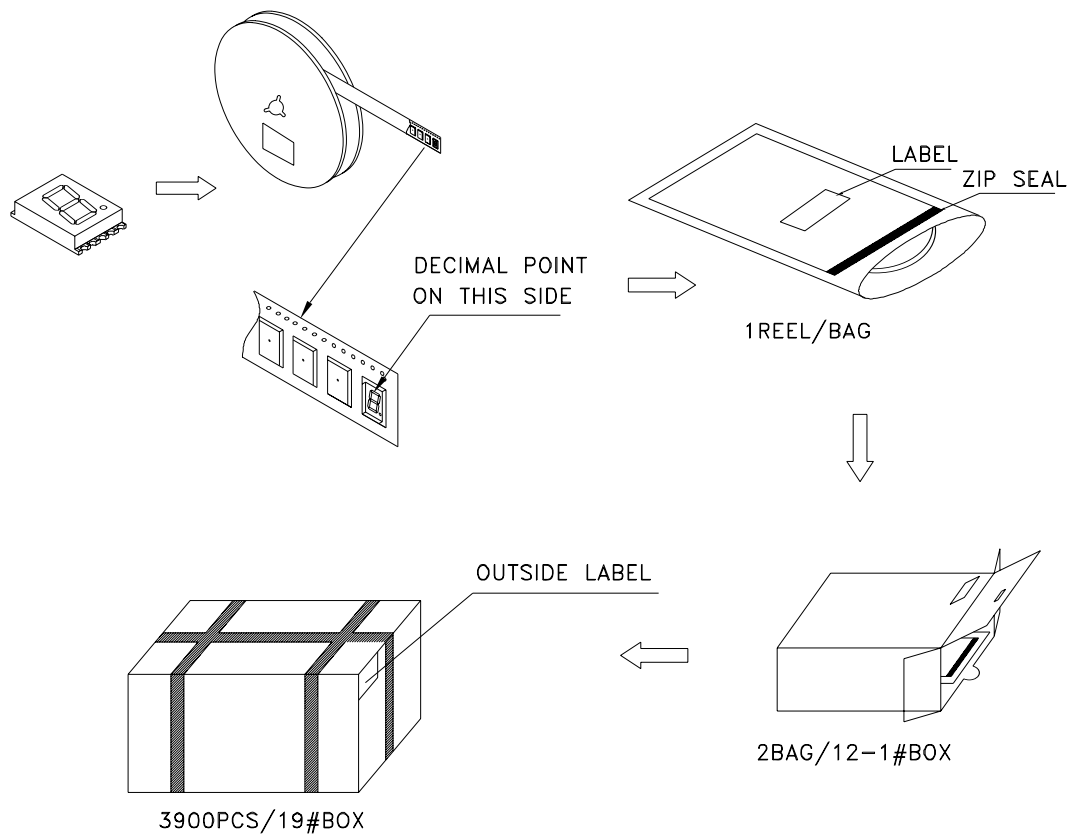


Tape Specifications (Units : mm)



PACKING & LABEL SPECIFICATIONS

ACSC02-41SYKWA-F01



Inside LABEL Paste On The Tape-pipe

TYPE: ACSX02-41xxx		Date
Kingbright	QTY: 650 PCS CODE: xx	PASSED xx xx xx FQCX
XXXXXXXXXX-XXXX		Number OF FQC
RoHs Compliant		
LOT NO.		

Outside LABEL Paste On The BAG

ACSX02-41xxx	650 PCS	Number OF QA
60 QAx xx xx xx PASSED		Date
RoHs Compliant		

Outside LABEL Paste On The 19#Box

BOX Number	xxxx	XXX
ACSX02-41xxx 3900 x		
Number OF QA		
60 QAx xx xx xx PASSED		Date
RoHs Compliant		

Outside LABEL Paste On The 12-1#Box

ACSX02-41xxx	1300 PCS	Number OF QA
60 QAx xx xx xx PASSED		Date
RoHs Compliant		