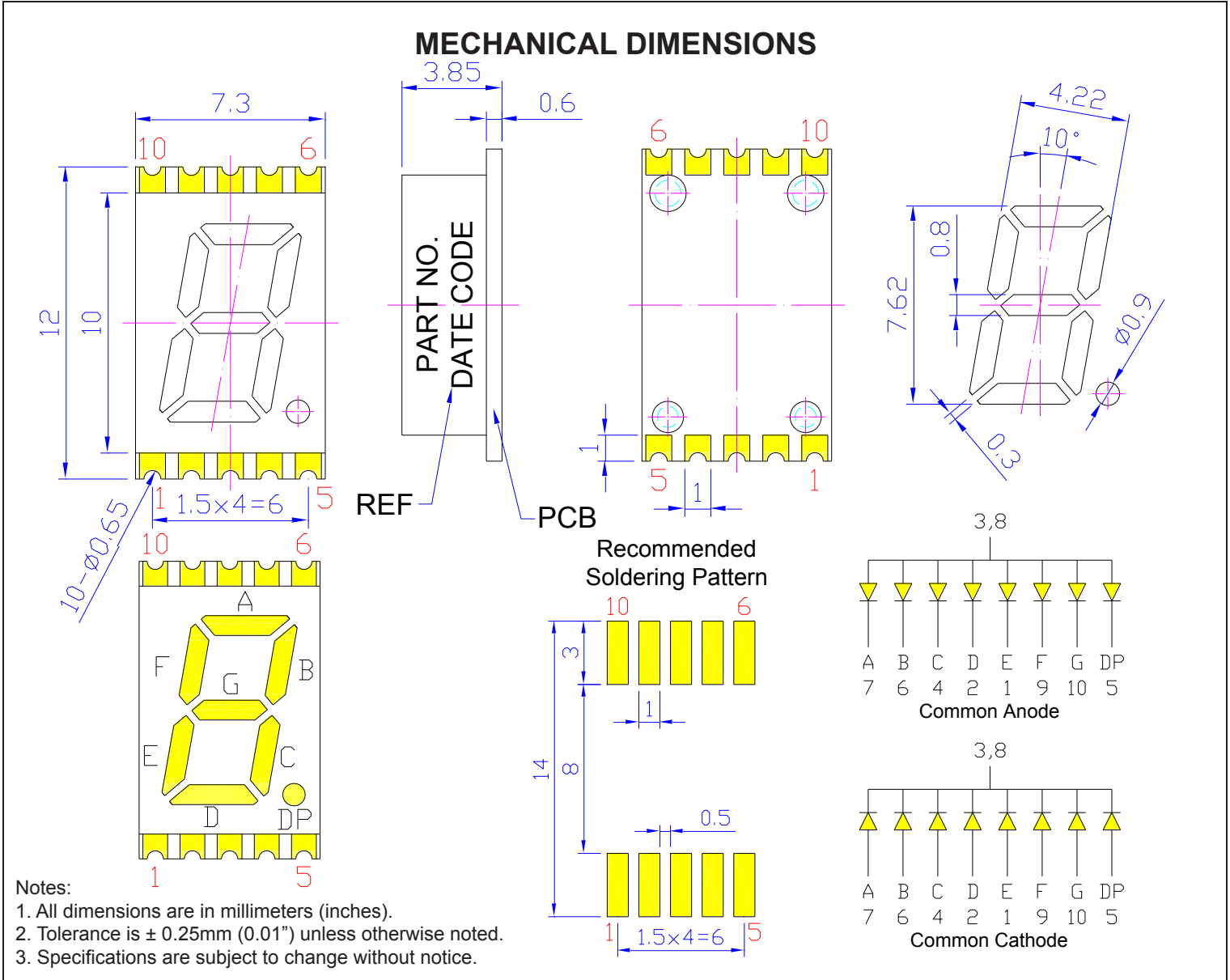


# SPECIFICATIONS SDSC30Y2W



Part Number	Chip Material	Color of Emission	Lens Type	Description
SDSC30Y2W	InGaAlP	Yellow	White Segment	Common Cathode



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**ABSOLUTE MAXIMUM RATINGS**
**(TA=25°C)**

Parameter	Symbol	Value	Unit
Power Dissipation per Dice	P <sub>AD</sub>	70	mW
Derating Liner from 25°C per Dice	-	0.28	mA / °C
Continuous Forward Current per Dice	I <sub>AF</sub>	25	mA
Peak Current per Dice (duty cycle 1/10, 1kHz)	I <sub>PF</sub>	90	mA
Reverse Voltage per Dice	V <sub>R</sub>	5	V
Operating Temperature	T <sub>OPR</sub>	-40~+105	°C
Storage Temperature	T <sub>STG</sub>	-40~+105	°C

**OPTICAL-ELECTRICAL CHARACTERISTICS**
**(TA=25°C)**

Characteristic	Symbol	Condition	Value			Unit
			Min.	Type.	Max.	
Forward Voltage per Dice	V <sub>F</sub>	I <sub>F</sub> = 20mA	-	2.0	2.4	V
Reverse Current per Dice	I <sub>R</sub>	V <sub>R</sub> = 5V	-	-	10	μA
Peak Wavelength per Dice	λ <sub>P</sub>	I <sub>F</sub> = 20mA	-	593	-	nm
Dominant Wavelength per Dice	λ <sub>D</sub>	I <sub>F</sub> = 20mA	585	590	595	nm
Luminous Intensity per Dice	I <sub>V</sub>	I <sub>F</sub> = 20mA	-	35	-	mcd
Spectral Radiation Bandwidth per Dice	Δλ	I <sub>F</sub> = 20mA	-	20	-	nm

\*Tolerance of viewing angle: -10 / +5 deg.



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## OPTICAL CHARACTERISTIC CURVES

### Typical Electro-optical Characteristic Curves (25 °C Free Air Temperature Unless Otherwise Specified)

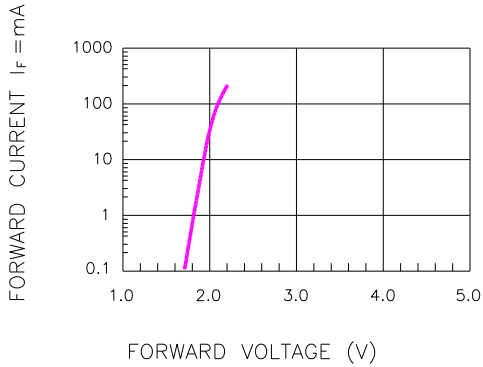


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

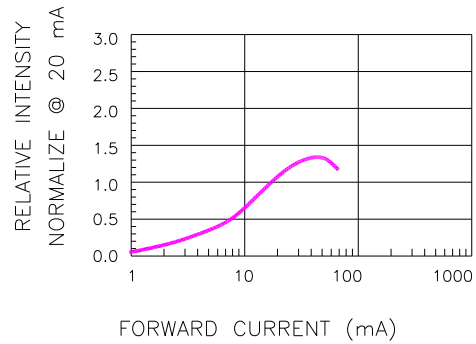


Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

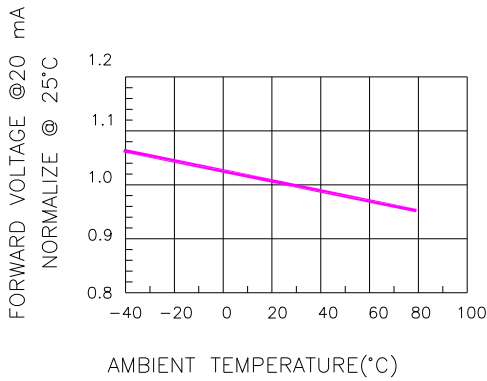


Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

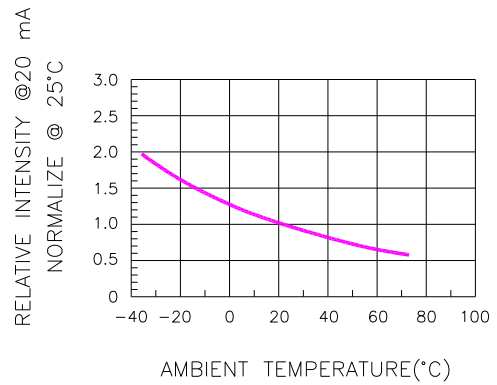


Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

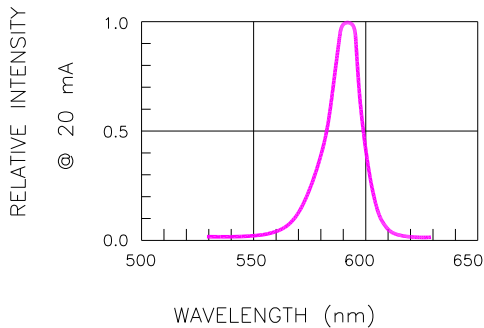


Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

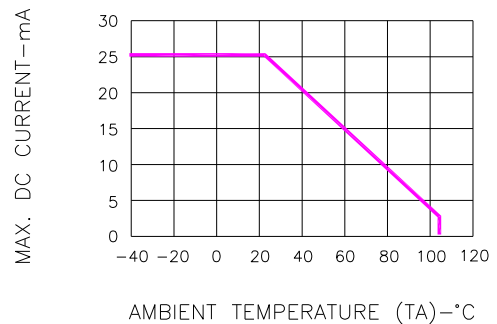


Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



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## SOLDERING CONDITIONS – LAMP TYPE LED

### ● SMT REFLOW SOLDERING INSTRUCTIONS

SMT Soldering Profile

Pb free reflow soldering Profile



### ● SOLDERING IRON

Basic spec is  $\leq 4$  sec when 260 °C. If temperature is higher, time should be shorter (+10 °C → 1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230 °C.

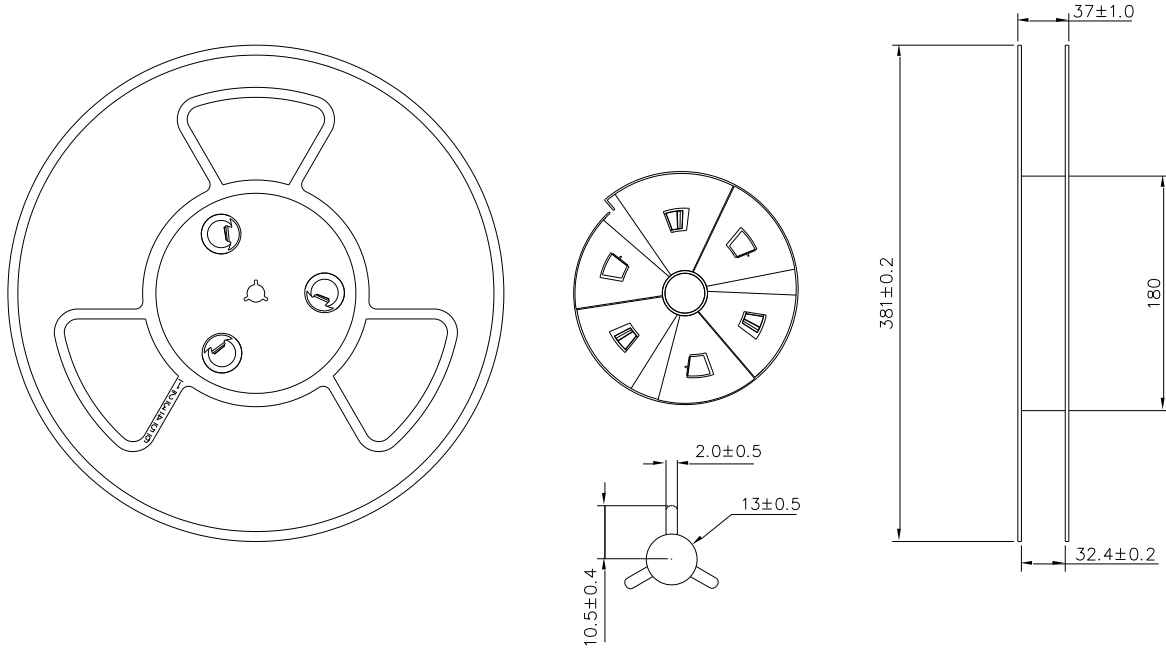
### ● REWORK

- Customer must finish rework within 5 sec. under 260 °C.
- The head of soldering iron cannot touch copper foil.

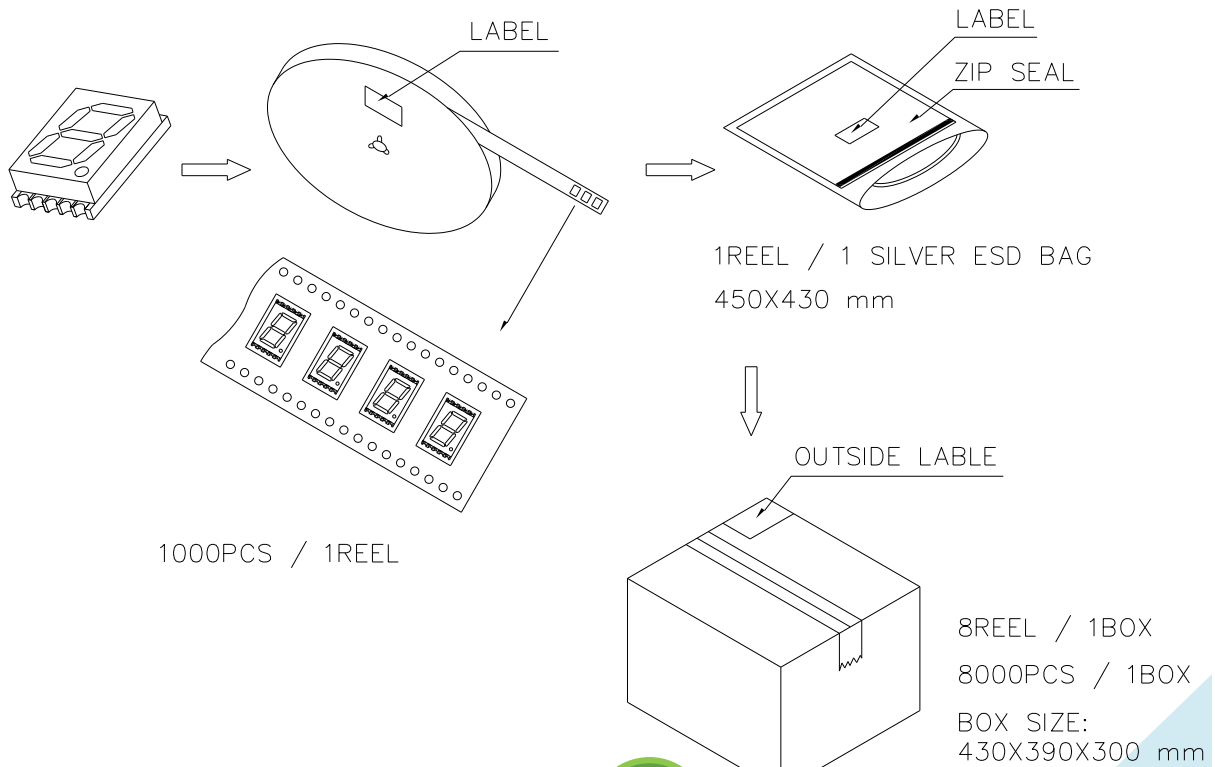


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## DIMENSIONS OF TAPE (Unit: mm)



## PACKAGING SPECIFICATION



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