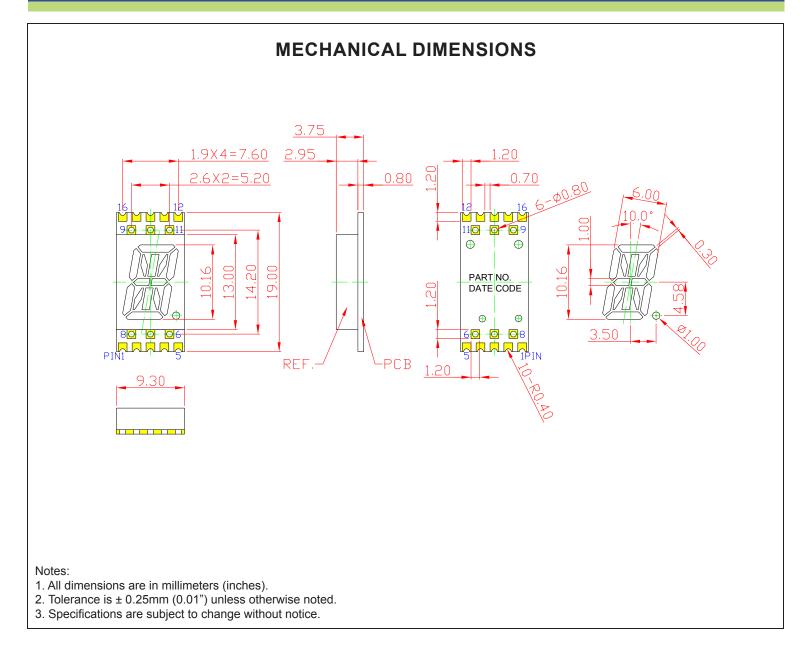


SPECIFICATIONS



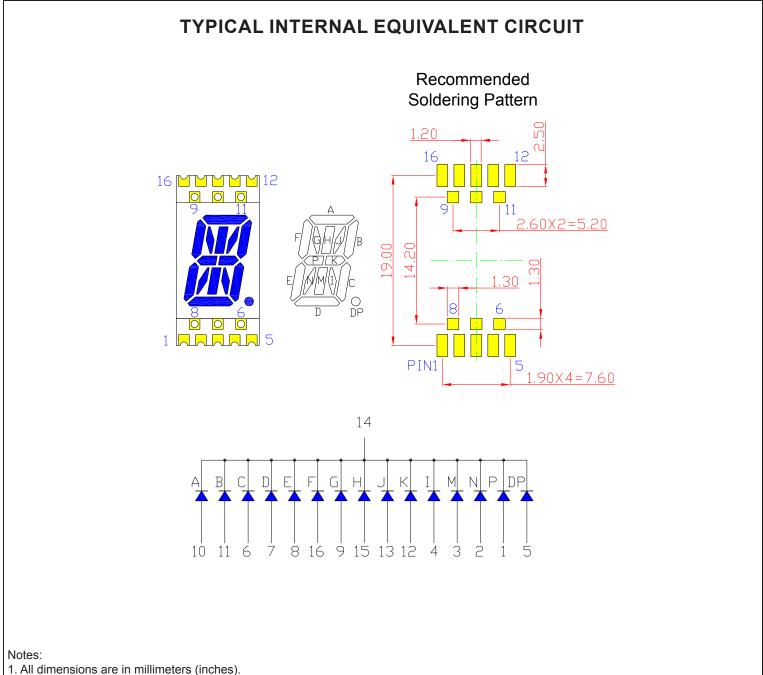


Part Number	Chip Material	Color of Emission	Lens Type	Description	
SDSCN40B2W	InGaN	Blue	White Segment	Common Cathode	





SPECIFICATIONS



- 2. Tolerance is \pm 0.25mm (0.01") unless otherwise noted.
- 3. Specifications are subject to change without notice.





ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol		Unit
Power Dissipation per Dice	Pad	120	mW
Derating Liner from 25°C per Dice	-	0.33	mA / °C
Continuous Forward Current per Dice	laf	30	mA
Peak Current per Dice (duty cycle 1/10, 1kHz)	lpf	43	mA
Reverse Voltage per Dice	Vr	5	°C
Operating Temperature	Topr	-40~+105	°C
Storage Temperature	Тѕтс	-40~+105	°C

OPTICAL-ELECTRICAL CHARACTERISTICS

Value Characteristic Symbol Condition Unit Min. Type. Max. Forward Voltage per Dice IF = 20 mA3.1 4.0 VF V **Reverse Current per Dice** VR = 8V10 IR μA _ Dominant Wavelength per Dice IF = 20 mA464 474 λD _ nm Luminous Intensityp per Dice IF = 20 mA30 IV _ _ mcd Spectral Radiation Bandwidth IF =20mA 30 Δλ _ _ nm per Dice

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



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

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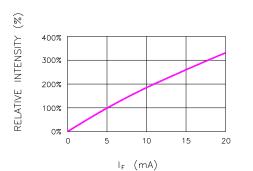
(TA=25°C)

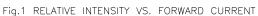
(TA=25°C)

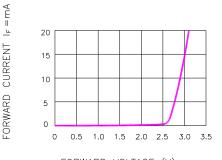


OPTICAL CHARACTERISTIC CURVES

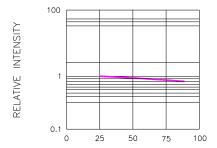
(25 °C Free Air Temperature Unless Otherwise Specified)

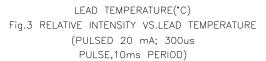


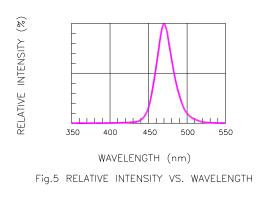




FORWARD VOLTAGE (V) Fig.2 FORWARD CURRENT VS. FORWARD VOLTAGE







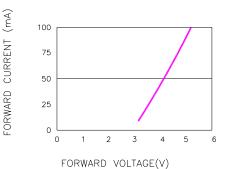
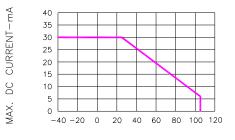


Fig.4 PEAK FORWARD VOLTAGE VS.FORWARD(100us TEST PULSE, 1% DUTY CYCLE)



AMBIENT TEMPERATURE (TA)-*C Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



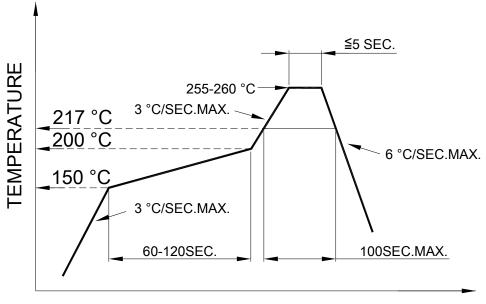


SOLDERING CONDITIONS – SMD TYPE LED

SMT REFLOW SOLDERING INSTRUCTIONS

SMT Soldering Profile

Pb free reflow soldering Profile



TIME

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.

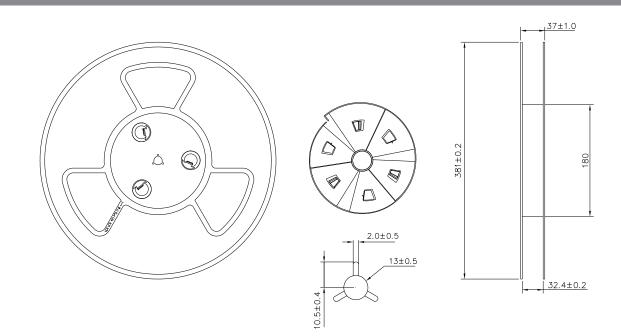
REWORK

- Customer must finish rework within 4 sec. under 245°C.
- The head of soldering iron cannot touch copper foil.

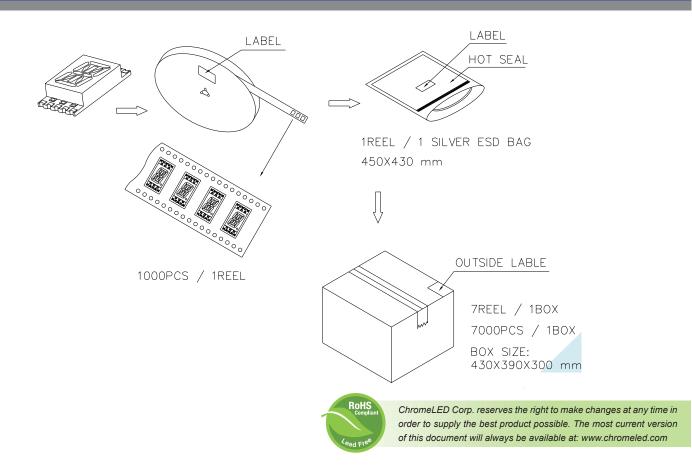




DIMENSIONS OF TAPE (Unit: mm)



PACKAGING SPECIFICATION



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