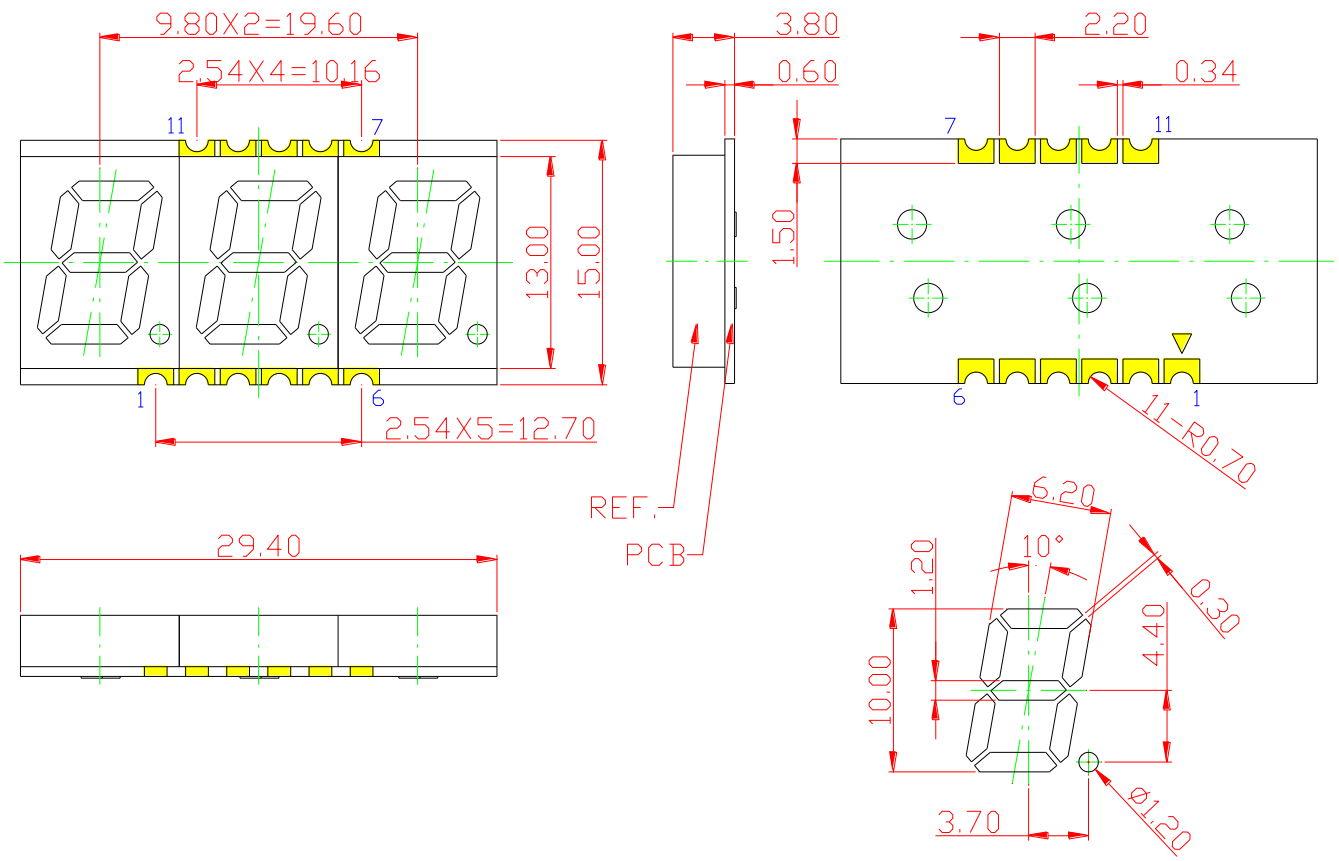


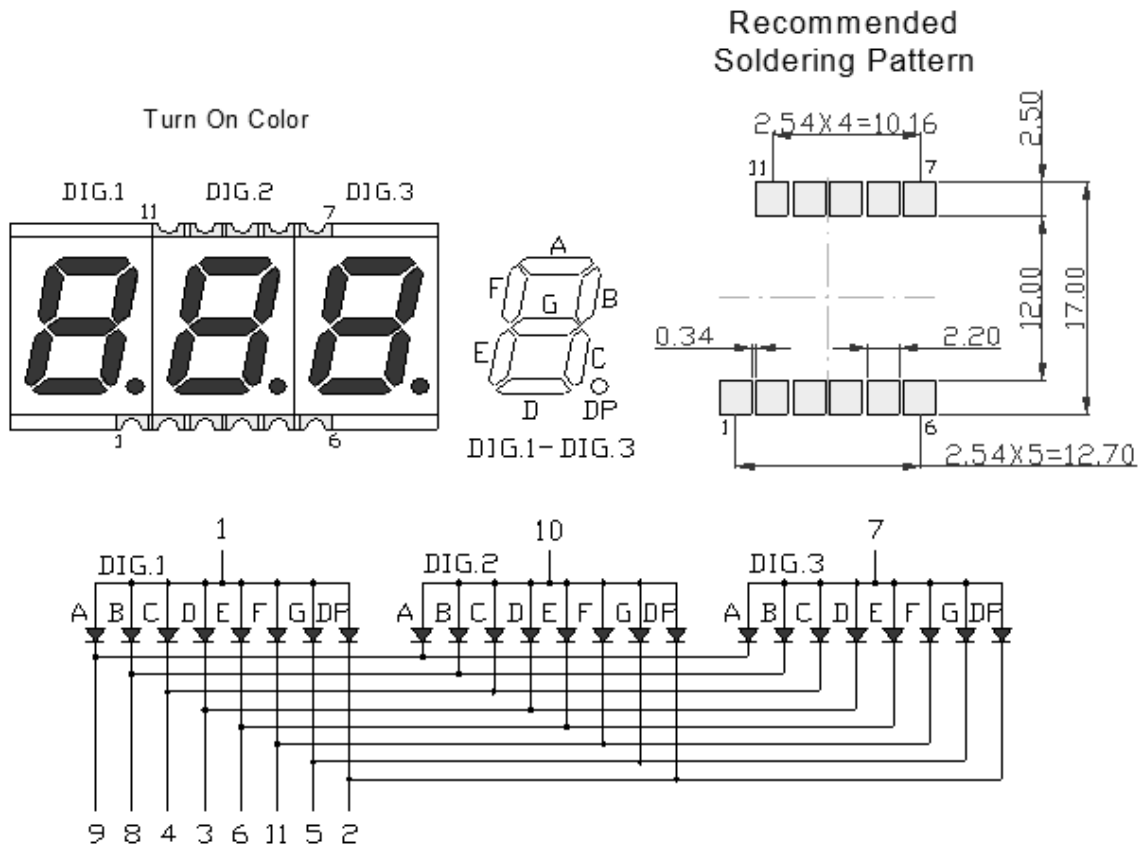
SPECIFICATIONS **SDTA39R2W**
MECHANICAL DIMENSIONS


- Notes:
1. All dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Description
SDTA39R2W	InGaAlP	Red	White Segment	Common Anode



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

SPECIFICATIONS
TYPICAL INTERNAL EQUIVALENT CIRCUIT

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
3. Specifications are subject to change without notice.



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

ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol		Unit
Power Dissipation per Dice	PAD	48	mW
Derating Liner from 25°C per Dice	-	0.3	mA / °C
Continuous Forward Current per Dice	IAF	20	mA
Peak Current per Dice (duty cycle 1/10, 1kHz)	IPF	40	mA
Reverse Voltage per Dice	VR	5	V
Operating Temperature	TOPR	-40~+105	°C
Storage Temperature	TSTG	-40~+105	°C

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Characteristic	Symbol	Condition	Value			Unit
			Min.	Type.	Max.	
Forward Voltage per Dice	VF	IF =20mA	-	2.1	2.4	V
Reverse Current per Dice	IR	VR = 5V	-	-	10	µA
Peak Wavelength per Dice	λP	IF =20mA	-	632	-	nm
Dominant Wavelength per Dice	λD	IF =20mA	619	-	629	nm
Luminous Intensity	IV	IF =20mA	30	60	-	mcd
Spectral Radiation Bandwidth per Dice	Δλ	IF =20mA	-	20	-	nm

*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

OPTICAL CHARACTERISTIC CURVES

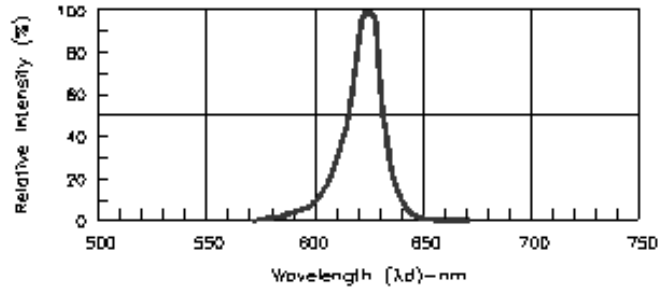


Fig.1-Relative Intensity vs Wavelength

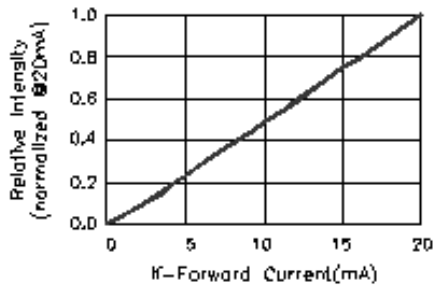


Fig.2-Relative Luminous Intensity vs. Forward Current

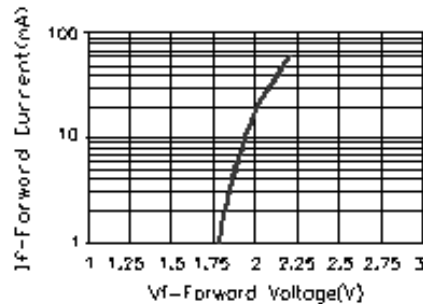


Fig.3-Forward Current vs. Forward Voltage

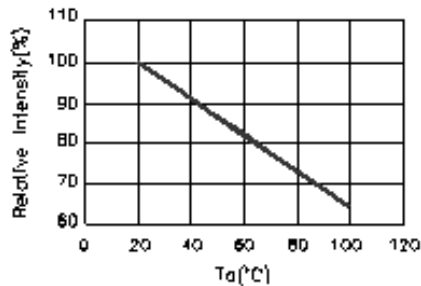


Fig.4-Relative Intensity(@20mA) vs. Ambient Temperature

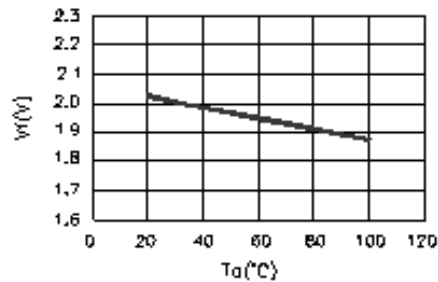


Fig.5-Forward Voltage(@20mA) vs. Ambient Temperature

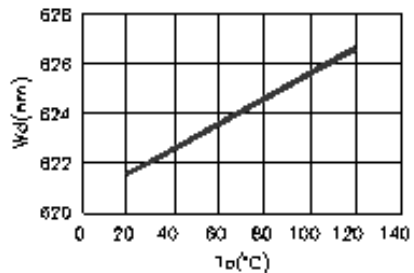


Fig.6-Dominant Wavelength(@20mA) vs. Ambient Temperature

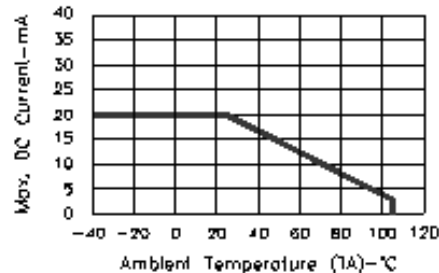


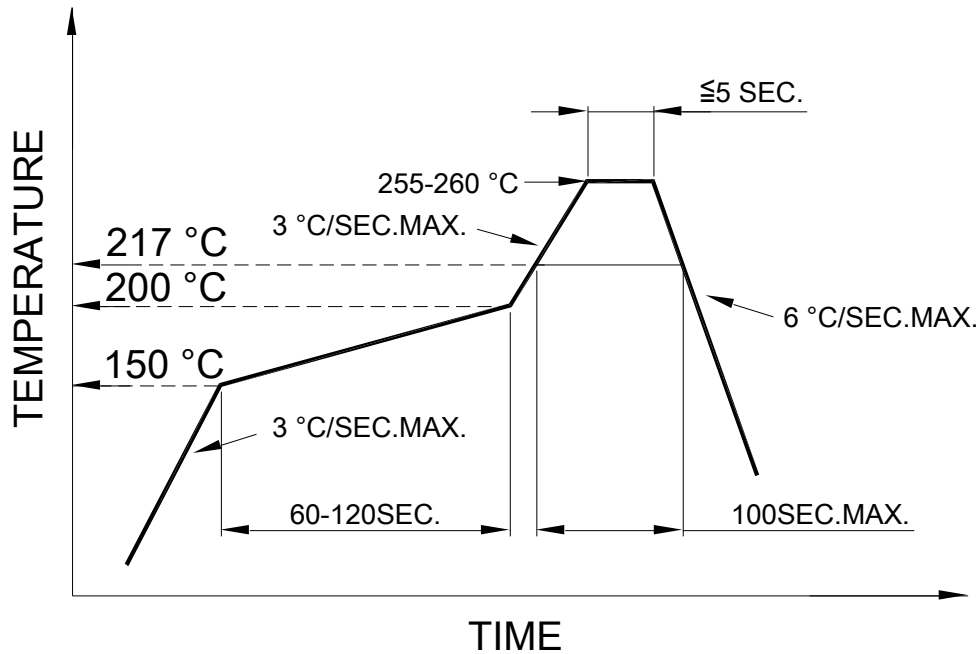
Fig.7-Max. Allowable DC Current vs Ambient Temperature



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

SOLDERING CONDITIONS – SMD TYPE LED
● RECOMMEND SOLDERING PROFILE

SMT Soldering Profile
Pb free reflow soldering Profile


● SOLDERING IRON

Basic specification : ≤ 4 seconds 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

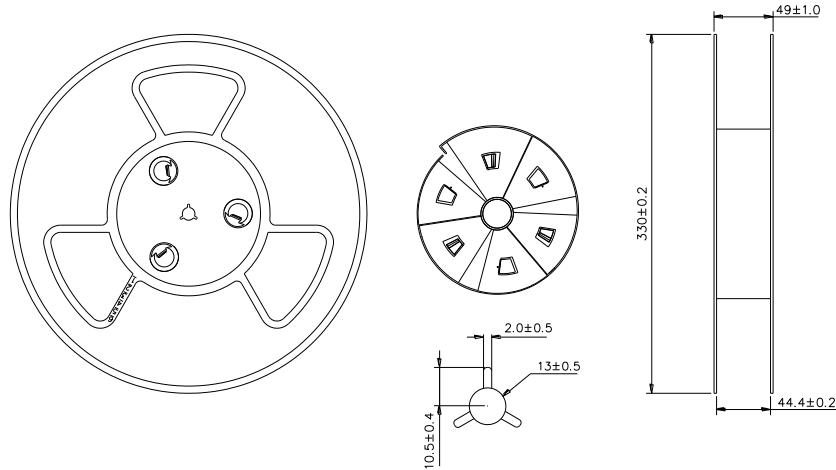
Customer must finish rework within ≤ 3 sec under 350°C.



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

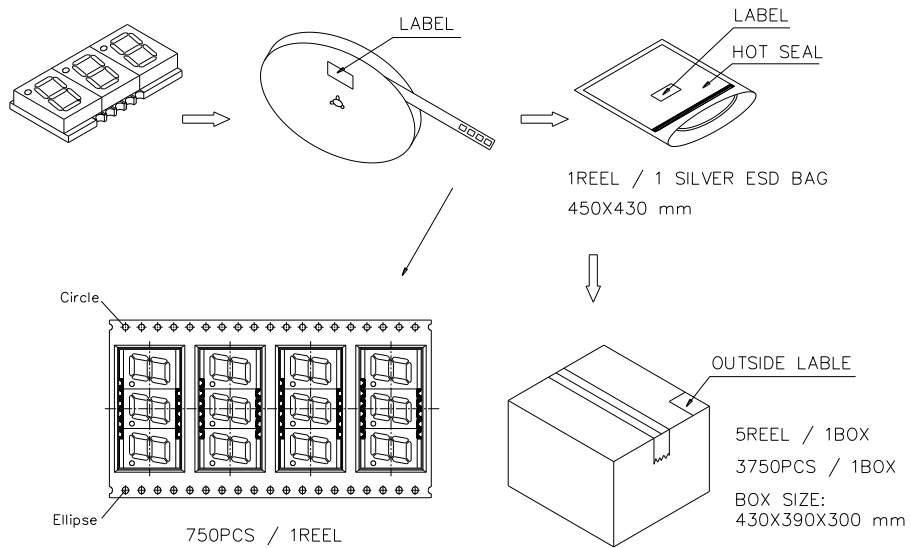
DIMENSIONS OF TAPE (Unit: mm)

● REEL DIMENSIONS



PACKAGING SPECIFICATION

● PACKING & LABEL SPECIFICATIONS



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