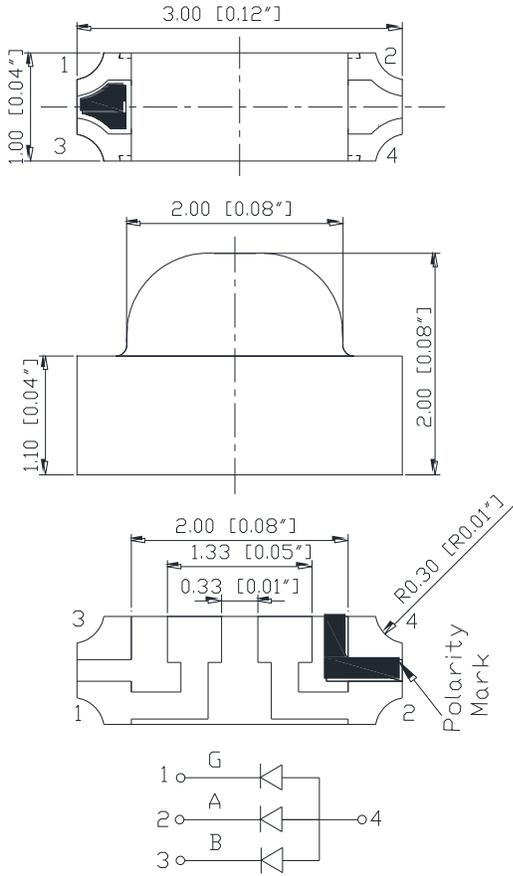
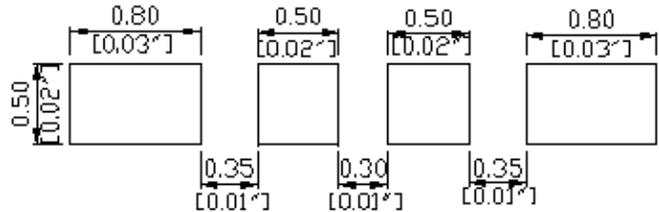


SPECIFICATION **CSRT125A2GT2B2C-2**
PACKAGE OUTLINES

RECOMMENDED PAD LAYOUT


ITEM	MATERIALS	
Resin (mold)	Epoxy	
Lens color	Water Transparent	
Dice	Amber	AlGaInP/GaAs
	Green	InGaN
	Blue	InGaN

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	Viewing Angle
CSRT125A2GT2B2C-2	InGaAlP	Amber	Water Clear	150°
	InGaN	True Green	Water Clear	150°
	InGaN	Blue	Water Clear	150°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating		Unit
		Blue/ Green	Amber	
Forward Current	I _F	30	30	mA
Reverse Voltage	V _R	5	5	V
Power Dissipation	P _d	111	75	mW
Operating Temperature Range	T _{OP}	-40~+80		°C
Storage Temperature Range	T _{STG}	-40~+85		°C
Peak Pulsing Current (tp ≤ 10 μs, duty cycle = 0.005)	I _{FP}	125	125	mA

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	I _v	I _F = 20mA	Amber	100	160	-	mcd
			Green	320	530	-	
			Blue	60	100	-	
Forward Voltage	V _F	I _F = 20mA	Amber	-	2.0	2.5	V
			Green	-	3.3	3.7	
			Blue	-	3.2	3.7	
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 20mA	-	-	150	-	Deg
Dominant Wavelength	λ _D	I _F = 20mA	Amber	-	606	-	nm
			Green	-	525	-	
			Blue	-	470	-	

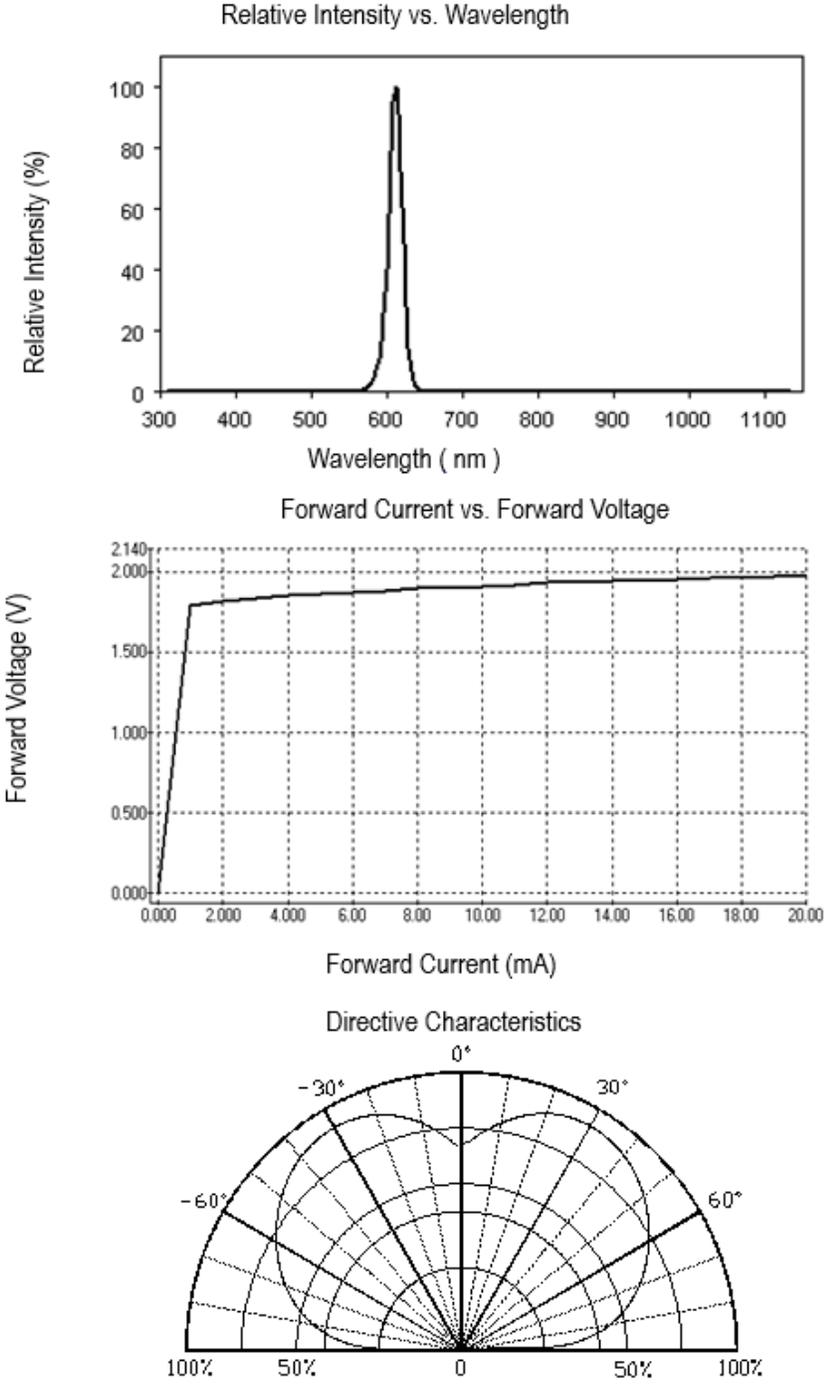
*Tolerance of viewing angle: -10 / +5 deg.

*Tolerance of forward voltage is -/+ 0.05V

*Tolerance of luminous intensity -/+ 1nm


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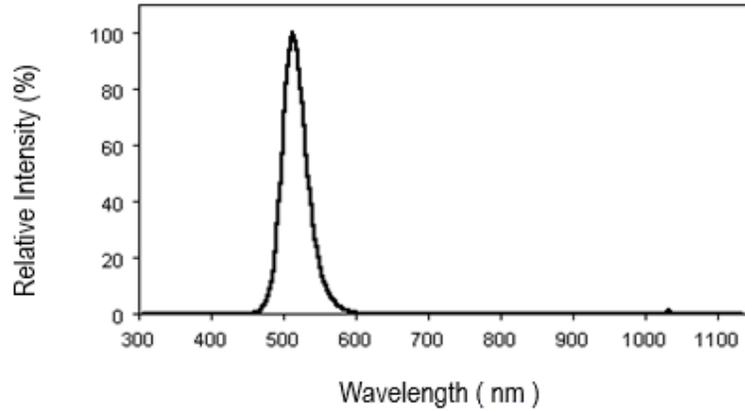
TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES (AMBER)



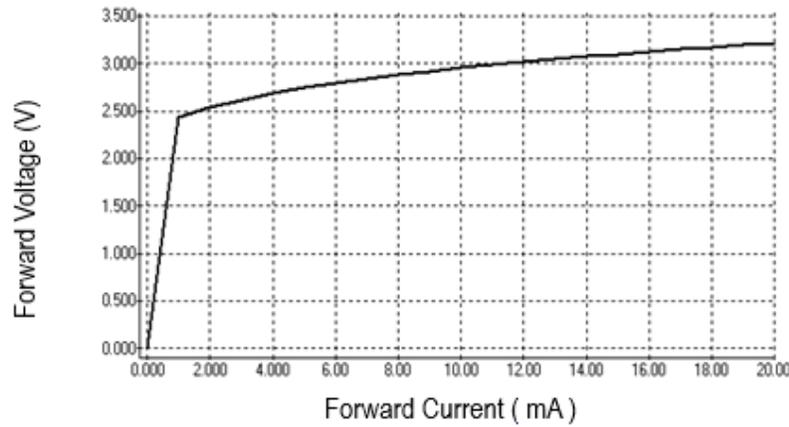

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TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES (GREEN)

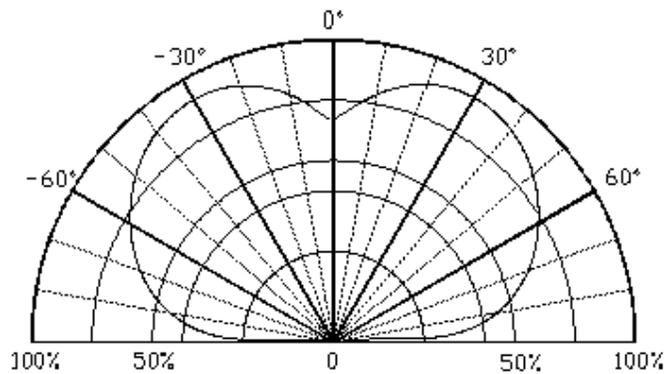
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



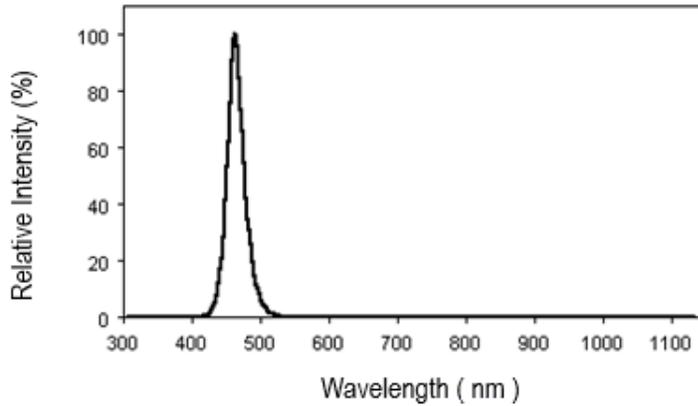
Directive Characteristics



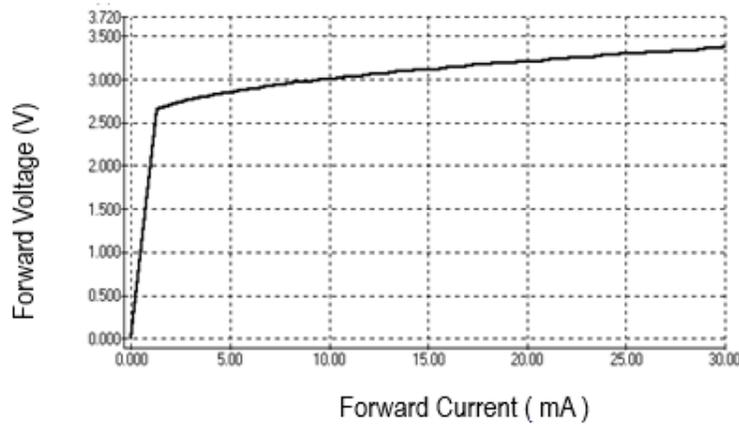
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TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES (BLUE)

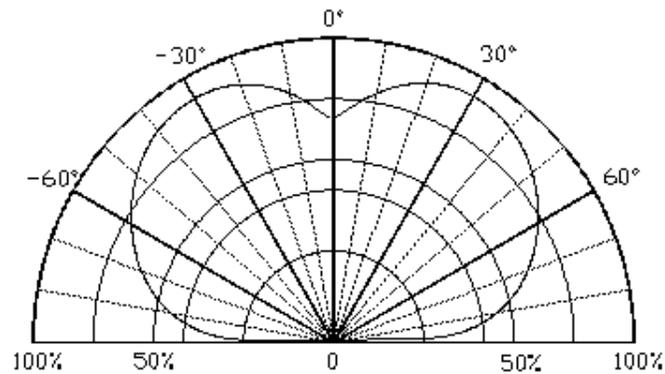
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



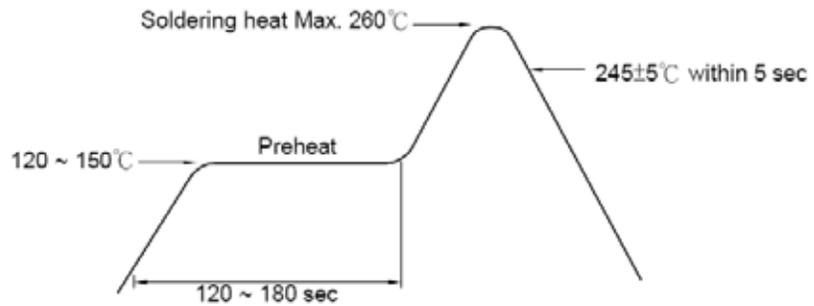
Directive Characteristics



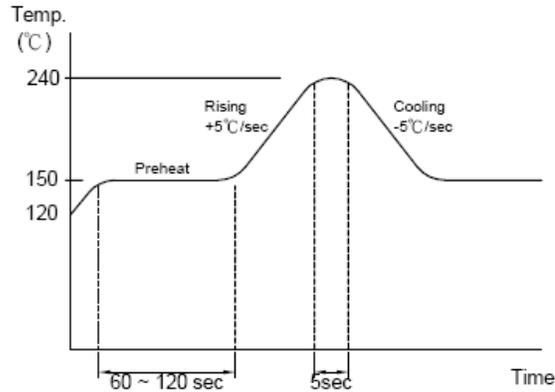
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SOLDERING CONDITIONS

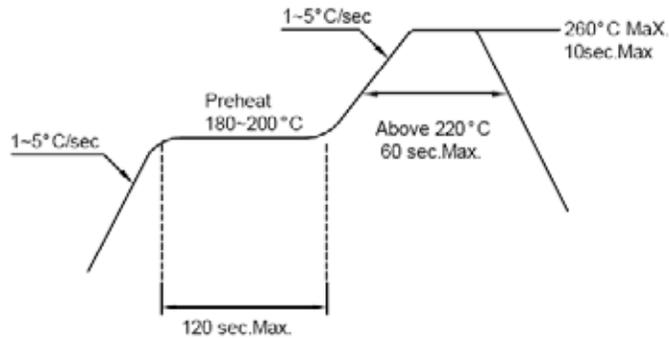
1. Hand Solder
Basic spec is $\leq 280^{\circ}\text{C}$ 3 sec one time only.
2. Wave Solder



3-1. LEAD Reflow Solder



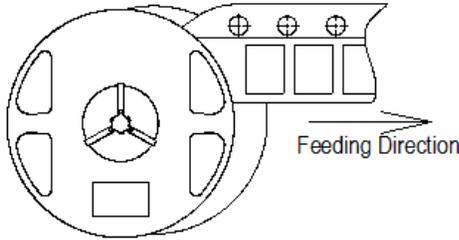
3-2. PB-Free Reflow Solder



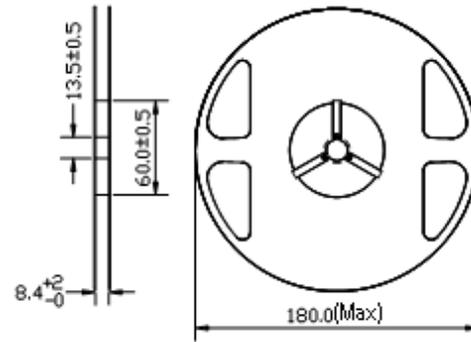
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REEL PACKAGING
PACKAGE SPECIFICATIONS

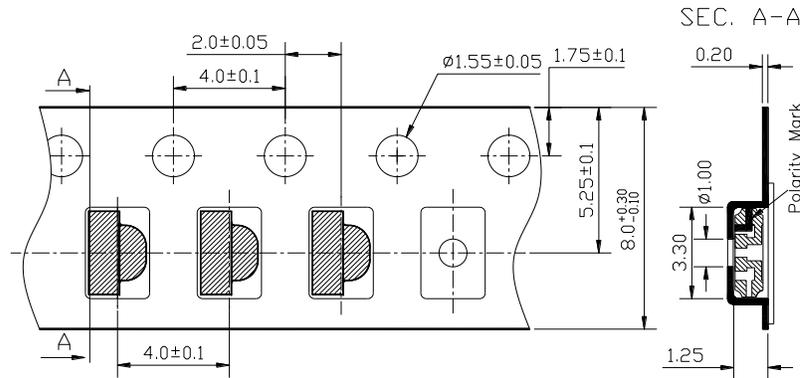
Feeding Direction



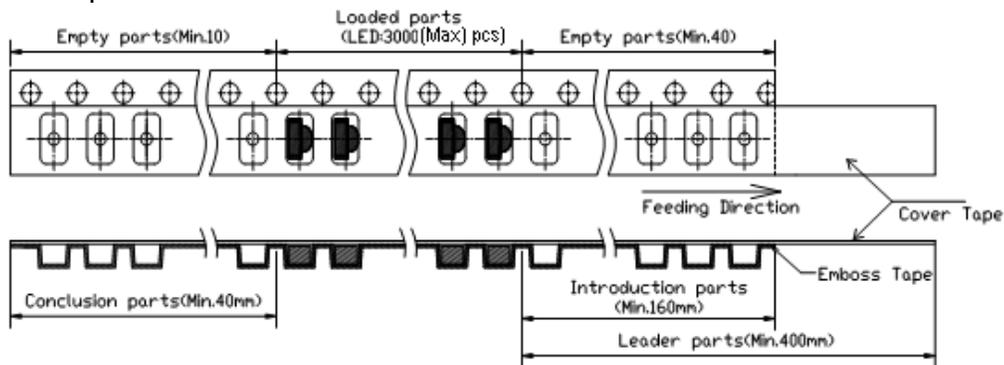
Dimensions of Reel (Unit: mm)



Dimensions of Tape (Unit: mm)



Arrangement of Tape



Notes:

1. Empty component pockets are sealed with top cover tape.
2. The maximum number of missing lamp is two.
3. The polarity mark is oriented towards the tape sprocket hole;
4. 3,000 (Max) pcs/Reel
5. Packing in multiples of 500; e.g 500pcs/R, 1000pcs/R, 1500pcs/R. etc., MAX 3000pcs/R



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