

ITEM NO : AP3528QRC

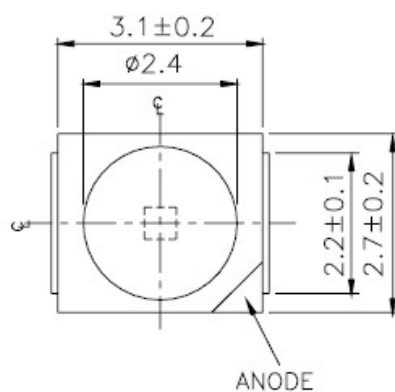
■ Features :

- COMPATIBLE WITH AUTOMATIC PLACEMENT EQUIPMENT
- COMPATIBLE WITH REFLOW SOLDER PROCESS



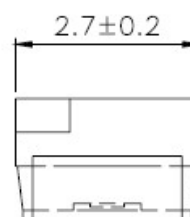
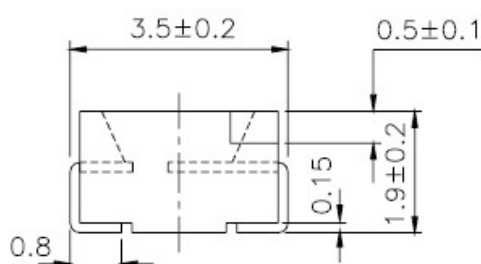
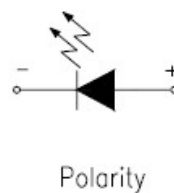
Material	Light Color	Lens Color
AlGaInP	Ultra Red	Water Clear

◆ Package Dimensions

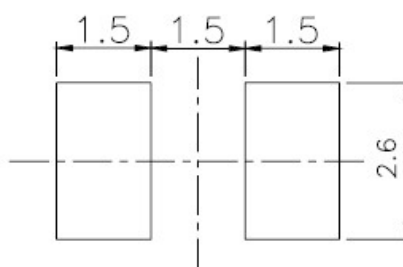
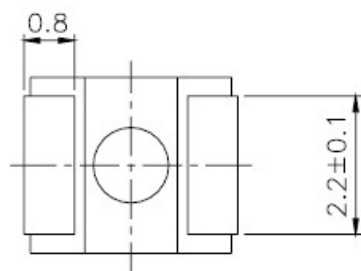


Unit : mm

Tolerance : ±0.1



◆ Recommended Soldering Pad Dimensions



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◆ Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	Maximum	Unit
Power Dissipation	P _D	65	mW
Continuous Forward Current	I _F	30	mA
Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width)	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Derating Linear Form 25°C		0.4	mA/°C
Operating Temperature Range	T _{opr}	-30 to +80	°C
Storage Temperature Range	T _{stg}	-40 to +85	°C

**condition for I_{FP} is pulse of 1/10 duty and 0.1 msec width.

◆ Electrical / Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =20mA	-	2.1	2.6	V
Reverse Current	I _R	V _R =5V	-	-	10	uA
Peak Emission Wavelength	λ _P	I _F =20mA	-	626	-	nm
Dominant Wavelength	λ _D	I _F =20mA	-	631	-	nm
Viewing Angle	θ	I _F =20mA	-	120	-	Deg
Luminous Intensity	I _V	I _F =20mA	160	200	-	mcd

◆ Typical Optical-Electrical Characteristic Curves

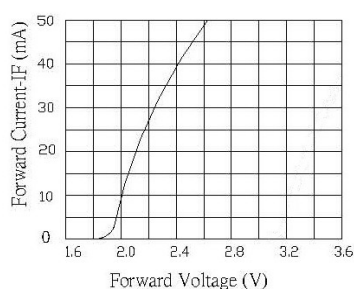


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE

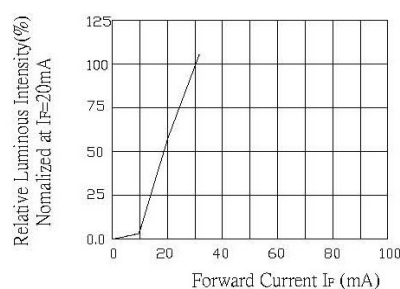


FIG.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

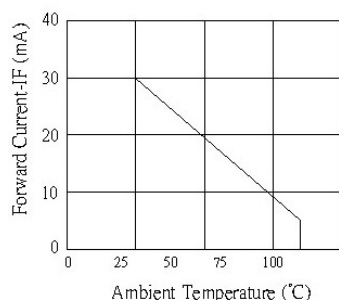


FIG.3 FORWARD CURRENT VS. AMBIENT TEMPERATURE

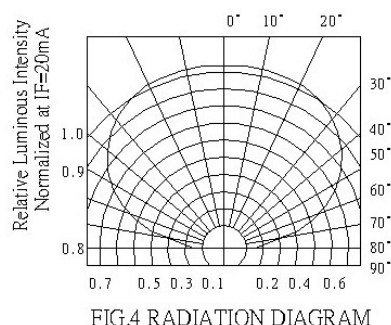


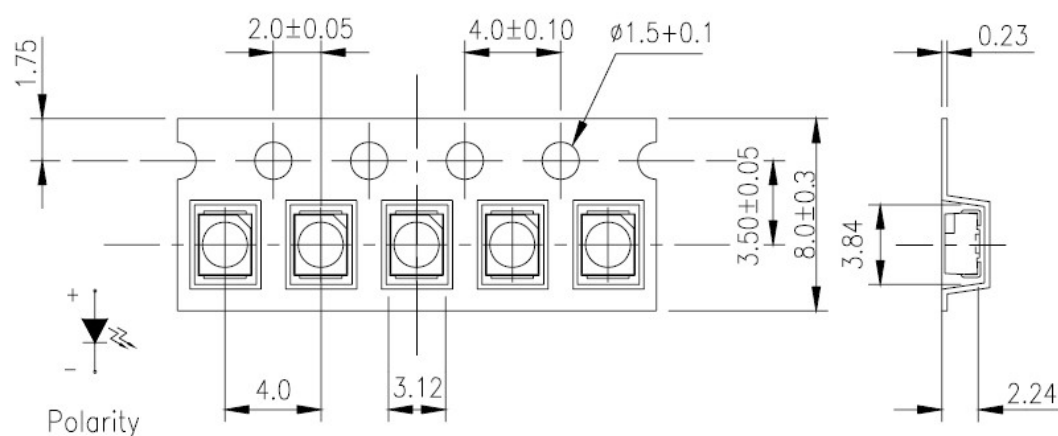
FIG.4 RADIATION DIAGRAM

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◆ Tape Specification : 2000 pcs Per Reel

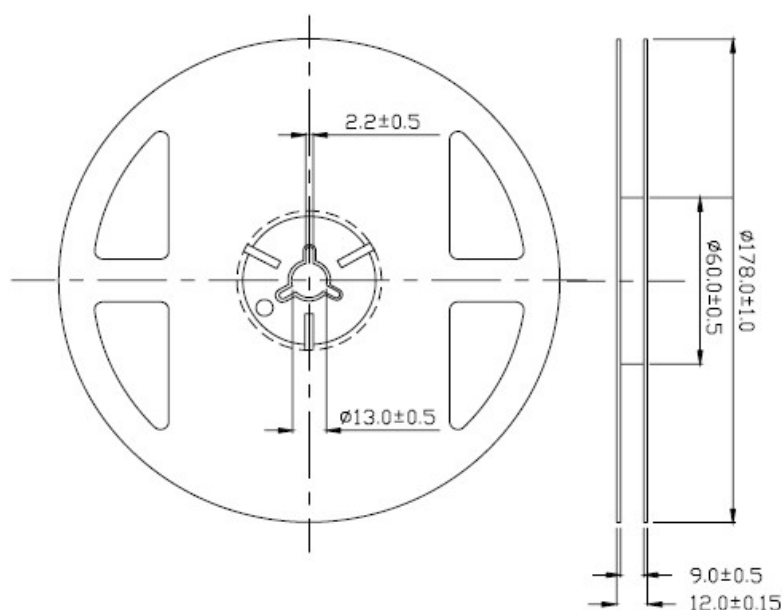
Packing Size										Unit : mm			
Item	W	P1	E	F	Do	D1	Po	10Po	P2	Ao	Bo	Ko	T
Spec.	8.00	4.00	1.75	3.50	1.50	1.00	4.00	40.00	2.00	1.85	3.40	1.52	0.22
Tolerance	±0.20	±0.10	±0.10	±0.05	+0.10 -0.00	±0.05	±0.05	±0.20	±0.05	±0.10	±0.10	±0.10	±0.05



◆ Package Dimensions of Reel

Unit : mm

Tolerance : ±0.3



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