# AUK CORP. KP3528R64A1I-PF

## 1. Descriptions

The KP3528R64A1I-PF is a small and thin form plastic leaded chip carrier(PLCC) 2-pin package with AlInGaP Red LED.

### 2. Features

- Small Footprint Surface Mount Package (3.5 L × 2.8 W × 1.9 H [mm])
- ◆ Typical Forward Voltage(V<sub>F</sub>) : 2.2 V @ Forward Current(I<sub>F</sub>)=20mA
- ◆ Operation Temperature from -40 °C to +100 °C
- Soldering methods : IR reflow soldering
- Taping : 8mm conductive black carrier tape & antistatic clear cover tape

### 3. Applications

- ♦ Interior lighting
- General lighting
- Indoor and out door displays
- Architectural / Decorative lighting

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# 4. Outline Dimensions and Material Descriptions



Material Descriptions



No.	ITEM	Material
1	Frame Resin	Polyamide
2	Paste	Ag Epoxy
3	LED Chip	AllnGaP
4	Wire	Au
(5)	Encapsulant	Clear Silicone
6	Electrode	Cu alloy

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Rev. O date : 01-September-15



#### 5. Absolute Maximums

Item	Symbol	Min.	Max.	Unit	Conditions
Forward Current	۱ <sub>F</sub>	-	30	mA	
Peak Forward Current <sup>*1</sup>	I <sub>FP</sub>	-	60	mA	
Power Dissipation	PD	-	72	mW	
Reverse Voltage	V <sub>R</sub>	9	-	V	
Operating Temperature	T <sub>OP</sub>	-40	100	°C	
Storage Temperature	Ts	-40	100	C	
Soldering Temperature* 2	T <sub>sol</sub>	-	260	Ĵ	

\*1. IFP was measured at Tw  $\leq$  1 msec of pulse width and D  $\leq$  1/10 of duty ratio.

\*2. Soldering time : 5 Sec

## 6. Electro-Optical Characteristics ( $T_A = 25^{\circ}C$ )

ltem	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage <sup>*3</sup>	V <sub>F</sub>	1.7	-	2.5	V	I <sub>F</sub> =20mA
Reverse current	I <sub>R</sub>	-	-	10	μA	V <sub>R</sub> =5V
Luminous intensity <sup>*</sup>	I <sub>V</sub>	150	-	650	mcd	I <sub>F</sub> =20mA
Dominant wavelength	W <sub>D</sub>	635	-	645	nm	I <sub>F</sub> =20mA
Half angle <sup>*2</sup>	2 <b>Θ</b> <sub>1/2</sub>	-	120	-	deg	I <sub>F</sub> =20mA

\*1. The luminous intensity  $I_V$  was measured at the peak of the spatial pattern which may not be aligned with the mechanical axis of the LED package.

- \*2.  $2\Theta_{1/2}$  is the off-axis where the luminous intensity is 1/2 of the peak intensity.
- \*3. Measuring Tolerance
  - $V_F$  :  $\pm$  0.1 V,  $I_V$  :  $\pm$  10%, Ra :  $\pm$  3, X,Y :  $\pm$  0.01

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## 7. Ranks

•  $V_{F}$ ,  $I_{V}$ ,  $W_{D}$  @  $I_{F}$  = 20 mA

Forward Voltage [V]	Luminuous Intensity [mcd]	Wavelength [nm]
<b>1</b> : 1.7 ~ 2.1	<b>O</b> : 150 ~ 250	<b>a</b> : 635 ~ 637
<b>2</b> : 2.1 ~ 2.5	<b>P</b> : 250 ~ 350	<b>b</b> : 637 ~ 639
	<b>Q</b> : 350 ~ 450	<b>c</b> : 639 ~ 641
	<b>R</b> : 450~ 550	<b>d</b> : 641 ~ 643
	<b>S</b> : 550 ~ 650	<b>e</b> : 643 ~ 645

# 8. Part Numbering



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