

KEL0315C

Features

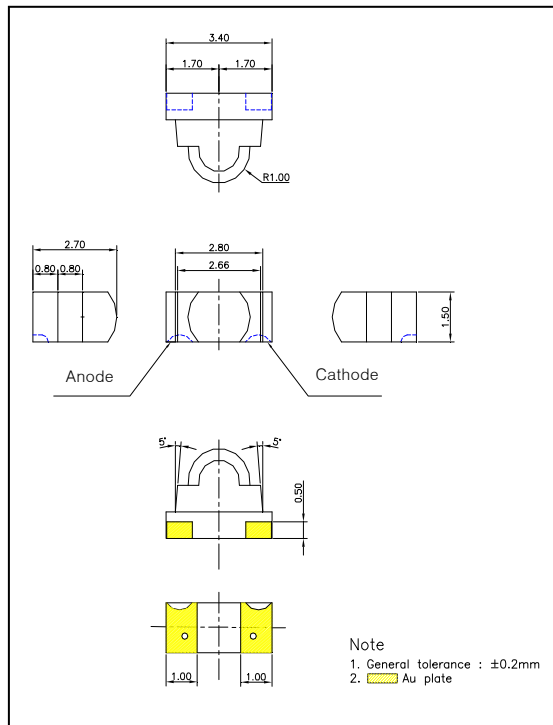
- Compact and thin package
- SMD type
- Reflow soldering
- Lead-free & High reliability package
- 2-way mount : top view / side view

Applications

- Touch screen for ATM
- Touch screen for Car navigation system
- Touch screen for FA equipment
- AV instrument
- Various types of disk driver

Dimensions

(Unit : mm)



Absolute Maximum Ratings

[Ta=25°C]

Parameter	Symbol	Rating	Unit
Receiver Voltage	V_R	6	V
Forward Current	I_F	50	mA
Power Dissipation	P_D	75	mW
Pulse Forward Current ^{*1}	I_{FP}	0.5	A
Operating Temperature	Topr	-20~+85	°C
Storage Temperature	Tstg	-30~+85	°C
Soldering Temperature ^{*2}	Tsol	260	°C

*1 : Pulse Width : $T_w \leq 100\mu\text{s}$, Period : $T = 10\text{ms}$

*2 : MAX 10s

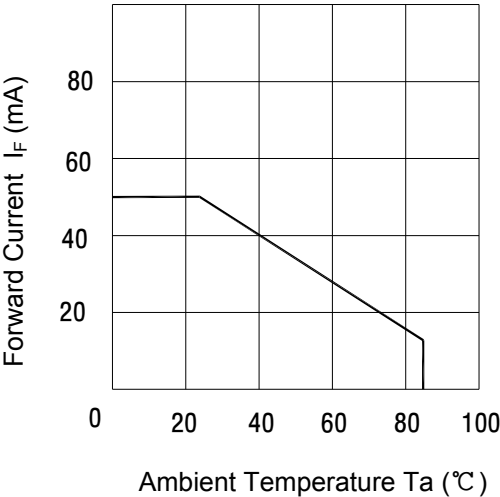
Electro-optical Characteristics

[Ta=25°C]

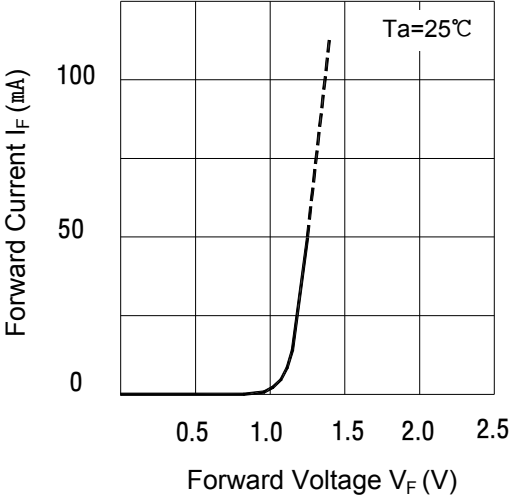
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	-	1.2	1.4	V
Reverse Current	I_R	$V_R=5\text{V}$	-	-	10	μA
Radiant Intensity	P_O	$I_F=20\text{mA}$	2.0	2.5	-	mW/sr
Peak Emission Wavelength	λ_P	$I_F=20\text{mA}$	-	940	-	nm
Spectral Bandwidth 50%	$\Delta\lambda$	$I_F=20\text{mA}$	-	45	-	nm
Half Angle	$\Delta\theta$	-	-	± 15		deg

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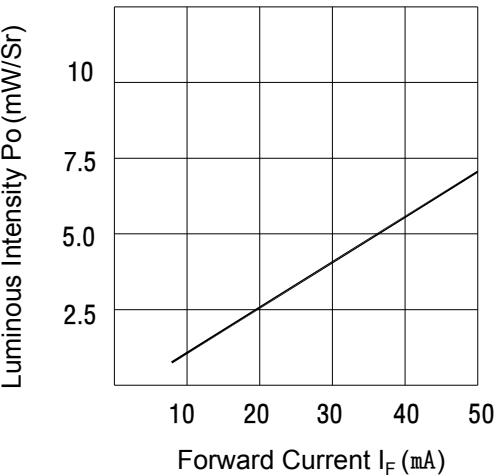
Forward Current vs Ambient Temperature



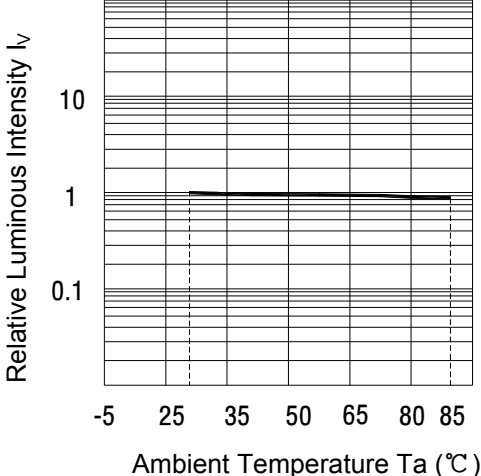
Forward Current vs Forward Voltage



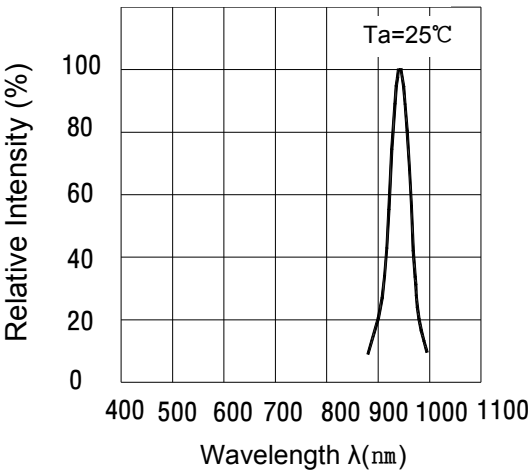
Luminous Intensity vs Forward Current



Relative Luminous Intensity vs Ambient Temperature



Relative Intensity vs Wavelength



Sensitivity Diagram Angular Displacement

