

# KST-0315A

**Features**

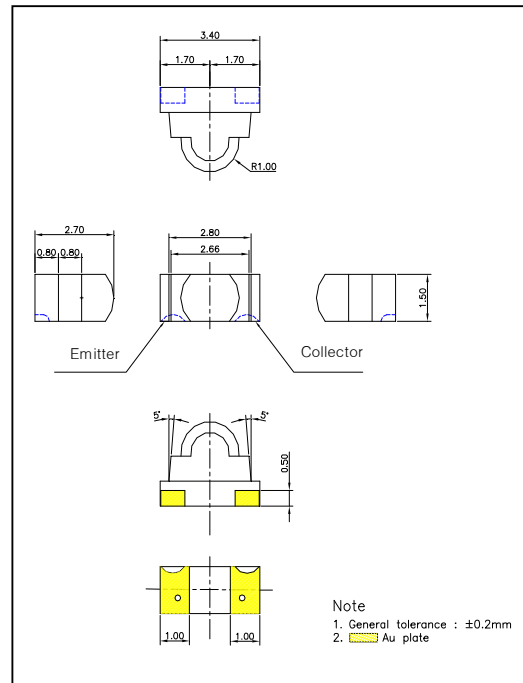
- Compact and thin package
- SMD type
- Reflow soldering
- Lead-free & High reliability package
- 2-way mount : top view / side view

**Applications**

- Touch screen for ATM
- Touch screen for Car navigation system
- Touch screen for FA equipment
- AV instrument
- Sensor for Strobe

**Dimensions**

(Unit : mm)



**Absolute Maximum Ratings**

[Ta=25°C]

Parameter	Symbol	Rating	Unit
Collector-Emitter Voltage	$V_{CEO}$	35	V
Emitter-Collector Voltage	$V_{ECO}$	6	V
Emitter-Collector Voltage	$I_C$	20	mA
Collector Power Dissipation	$P_C$	75	mW
Operating Temperature	$T_{opr}$	-20~+85	°C
Storage Temperature	$T_{stg}$	-30~+85	°C
Soldering Temperature <sup>*1</sup>	$T_{sol}$	260	°C

\*1 : MAX 10s

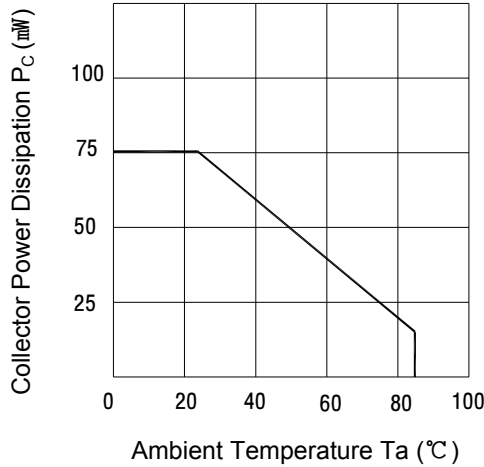
**Electro-optical Characteristics**

[Ta=25°C]

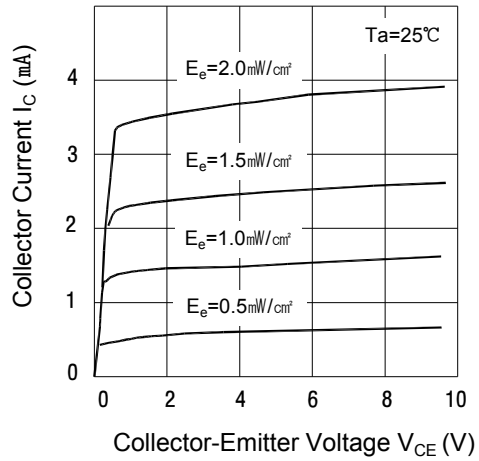
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Dark Current	$I_{CEO}$	Ee=0, $V_{CE}=20V$	-	1.0	100	nA
Collector Current	$I_C$	Ee=1mW/cm <sup>2</sup> , $V_{CE}=5V$	1.0	1.5	-	mA
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	Ee=10mW/cm <sup>2</sup> , $I_C=0.8mA$	-	0.15	0.4	V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	Ee=0, $I_{CE}=0.1mA$	35	90	-	V
Emitter-Collector Breakdown Voltage	$BV_{ECO}$	Ee=0, $I_{EC}=0.01mA$	6	7.5	-	V
Spectral Sensitivity	$\lambda$	-	700	-	1050	nm
Half Angle	$\Delta\theta$	-	-	880	-	nm
Switching Time	Rise Time	$V_{CE}=2V, I_C=2mA, R_L=100\Omega$	-	15	-	$\mu s$
	Fall Time		-	15	-	$\mu s$
Peak Sensitivity Wavelength	$\lambda_P$	-	-	±15	-	deg

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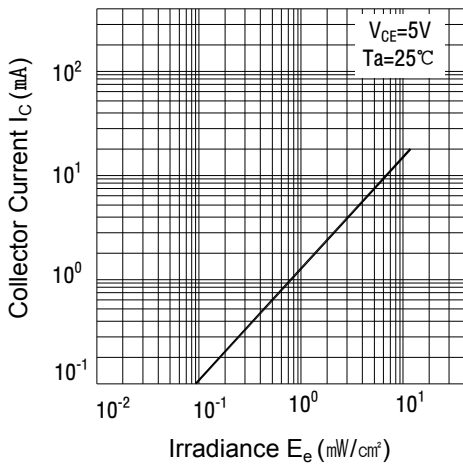
■ Collector Power Dissipation vs Ambient Temperature



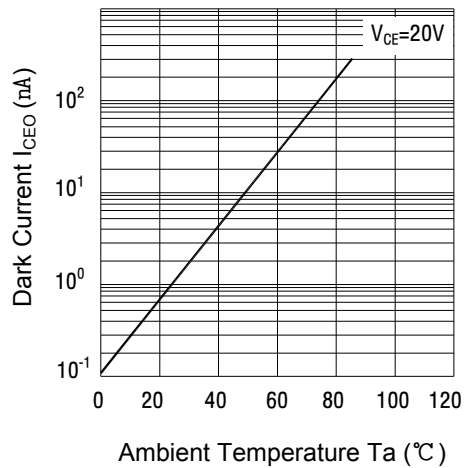
■ Collector Current vs Collector-Emitter Voltage



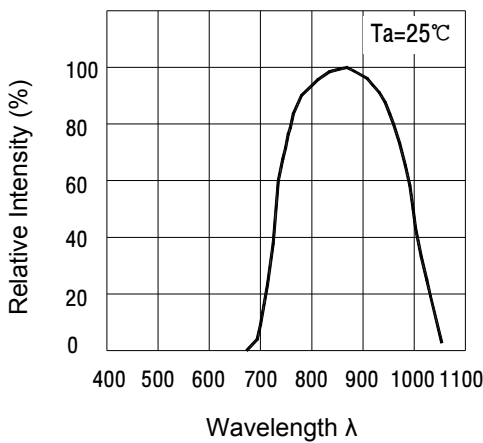
■ Collector Current vs Illuminance



■ Dark Current vs Ambient Temperature



■ Relative Sensitivity vs Wavelength



■ Radiant Pattern

