

KDT3312AL

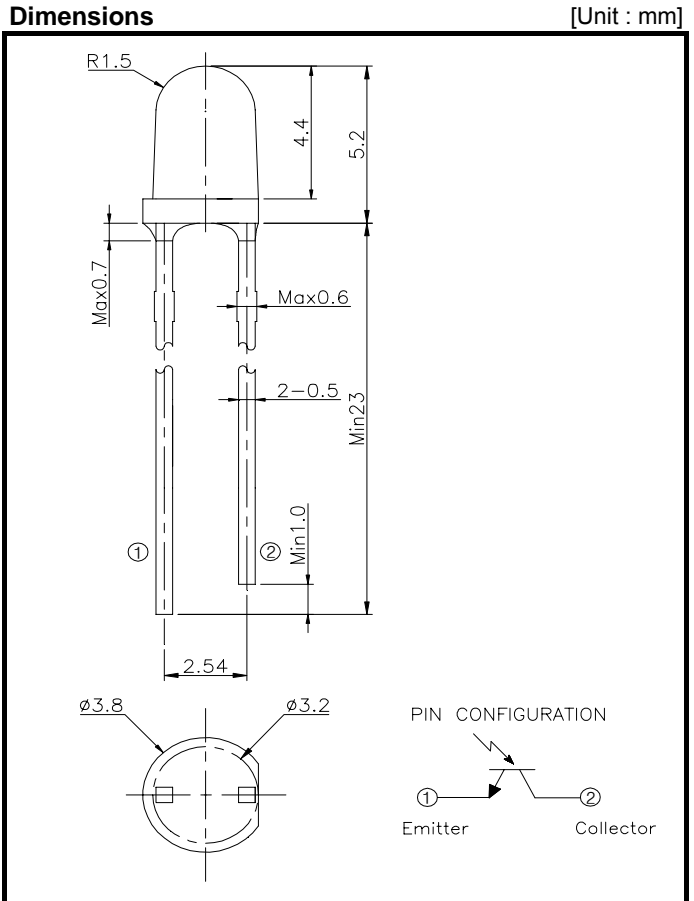
The KDT3312AL is phototransistor daylight sensor, which peak sensitivity is designed at $\lambda_p=560\text{nm}$. It's compact and easy to mount.

Features

- Lineat output conforming to illuminance
- $\Phi 3\text{mm}$ (T1) clear mold type.
- Adapted to human eye responsivity.
- Compact package
- RoHs Compliance.

Applications

- Switching for home lighting equipments
- Control of brightness for LCD monitor, CRT monitor
- Replacement of cds cell



Absolute Maximum Ratings

[$T_A = 25^{\circ}\text{C}$]

Parameter	Symbol	Rating	Unit
Collector-Emitter Voltage	V_{CEO}	7	mA
Emitter-Collector Voltage	V_{ECO}	4	V
Collector Current	I_C	20	mA
Collector Power Dissipation	P_C	75	mW
Operating Temperature	$T_{opr.}$	-20~+85	$^{\circ}\text{C}$
Storage Temperature	$T_{stg.}$	-30~+85	$^{\circ}\text{C}$
Soldering Temperature*1	T_{sol}	260	$^{\circ}\text{C}$

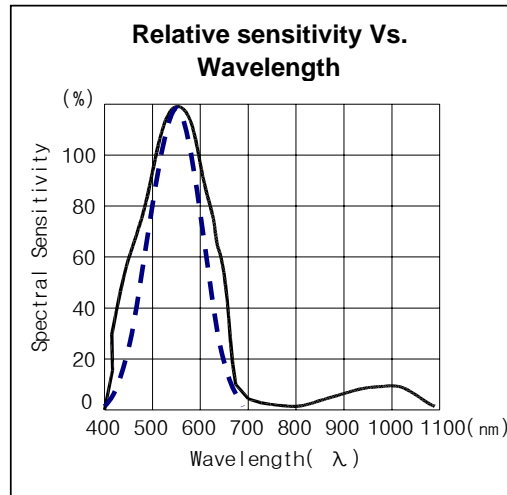
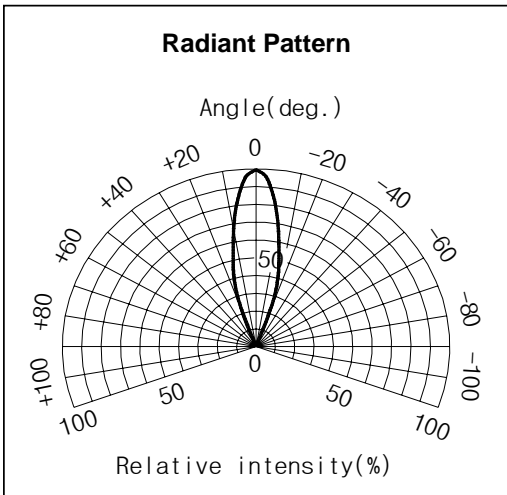
Notes : *1. For MAX.5 seconds at the position of 2mm from the package

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ELECTRO- OPTICAL CHARACTERISTICS

Description		Symbol	Condition	Min.	Typ.	Max.	Unit
Collector dark Current		I_{CEO}	$V_{CE}=10V, E_V=0$	-	-	100	nA
Photo Current		I_{PCE}	$V_{CE}=5V, E_V=100lx$	-	75	-	μA
Spectral Sensitivity		λ	-	400~700			nm
Peak wavelength		λ_p	-	-	560	-	nm
Switching time	Rise time	tr	$V_{CE}=10V, I_C=1mA, R_L=100\Omega$	-	6	-	μs
	Fall time	tf		-	6	-	μs
Viewing Angle		$\Delta\theta$	-	-	± 15	-	deg.
Collector-Emitter Saturation Voltage		$V_{CE(SAT)}$	$I_C=500\mu A, E_V=2000lx$	-	0.1	0.4	V

DYNAMIC CHARACTERISTICS



— KDR3T03AL
 - - - - - Human Eye