

Features

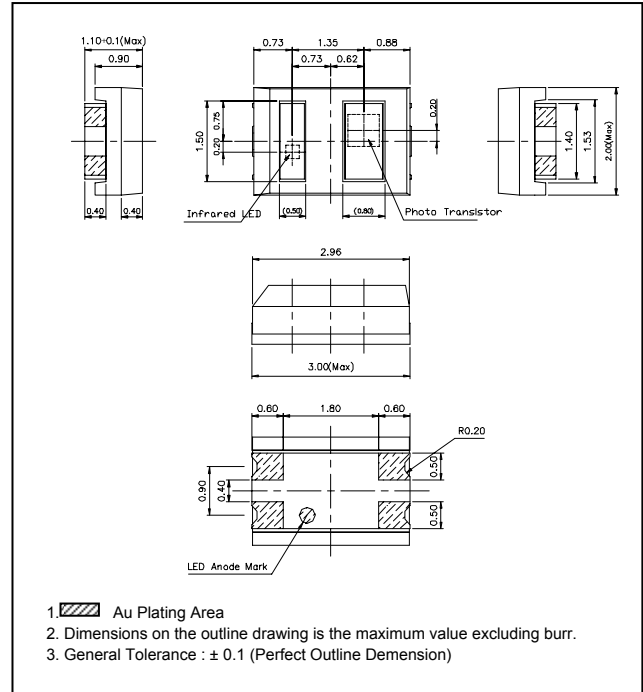
- Miniature Leadfree Surface Mount Package
- Reflective with Phototransistor Output
- Reflow Soldering
- Optimal Sensing Distance : 1.0 mm
- RoHS compliant and Leadfree package

Applications

- Limit Switch for linear drive sy
- Edge Sensor
- Digital Camera Module
- AF Camera Phone Module
- Detection of object presence or motion.

Dimensions

(Unit : mm)



Absolute Maximum Ratings

[Ta = 25°C]

Parameter		Symbol	Rating	Unit
Input	Forward current	I_F	50	mA
	Reverse voltage	V_R	5	V
	Power dissipation	P_D	75	mW
Output	Collector-emitter Voltage	V_{CEO}	30	V
	Emitter-collector voltage	V_{ECO}	6	V
	Collector current	I_C	20	mA
	Collector Power dissipation	P_C	75	mW
Total power dissipation		P_{tot}	100	mW
Operating temperature		T_{opr}	-25 to +85	°C
Soldering temperature *1		T_{sol}	260	°C

*1 for 5s or less

Electro-optical Characteristics

[Ta = 25°C]

Parameter		Symbol	Conditions	Min.	Typ.	Max.	Unit
Input	Forward voltage	V_F	$I_F=20mA$	-	1.2	1.4	V
	Reverse current	I_R	$V_R=5V$	-	-	10	μA
	Peak wavelength	λ_p	-	-	940	-	nm
Output	Collector dark current	I_{CEO}	$V_{CE}=10V$	-	1	100	nA
Transfer Characteristic	Collector Current *3	I_C	$I_F=4mA, V_{CE}=2V$	100	380	600	μA
	Leakage current	I_{LEAK}	$I_F=4mA, V_{CE}=2V$	-	-	10	μA
	Response time	Rise Time	$V_{CE}=2V, I_C=100\mu A, R_L=K1, d=1mm$	-	30	100	μs
		Fall time		-	25	100	