KI1232

Slit less Type

Description

Model **KI1232** consists of an Infra Red LED and a High sensitive Photo transistor (Analog output).

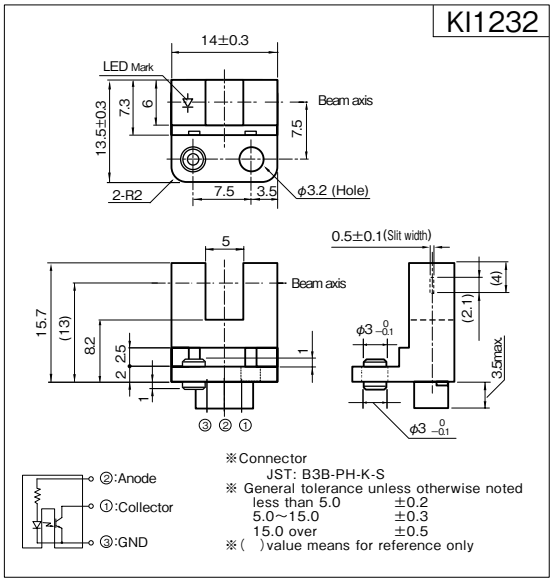
Feature

- Easy removing in paper-dust.
- High-resolution : slit width 0.5mm.
- Visible Light cut filter.

Application

- Object passing for Card reader, Bill exchanger.
- Coin-passing for Auto vending machine and Amusement.
- Object passing in Auto vender and Ticket vending machine.
- Paper detection for O.A. equipment.

Dimension (Unit:mm)



Absolute Maximum Ratings
[Ta=25℃ Unless otherwise noted]

Item		Symbol	Rating	Units
Emitter	Supply Voltage	V_{CC}	6	V
	Reverse Voltage	V_R	5	V
Detector	Collector-Emitter Voltage	V_{CEO}	30	V
	Emitter-Collector Voltage	V_{ECO}	5	V
	Collector Current	I_C	20	mA
	Power Dissipation	P_C	75	mW
Operating Temperature		T_{opr}	-20 ~ +75	℃
Storage Temperature		T_{stg}	-30 ~ +80	℃

Electro-Optical Characteristics [Ta=25℃ Unless otherwise noted]

Item			Symbol	Condition	min.	typ.	max.	Units
Emitter	Supply Voltage		V_{CC}		4.5	5.0	5.5	V
Detector	Dark Current		I_{CEO}	V_{CE}=10V, 0 lux	–	–	0.2	μA
Coupled	Light Current		I_C	V_{CC}=5V	0.3	–	–	mA
	Collector-Emitter Voltage		$V_{CE(sat)}$	V_{CC}=5V, I_C=0.15mA	–	–	0.4	V
	Response Time	Rise	tr	V_{CC}=5V, I_C=100 μA, R_L=1kΩ	–	50	–	μsec
		Fall	tf		–	50	–	

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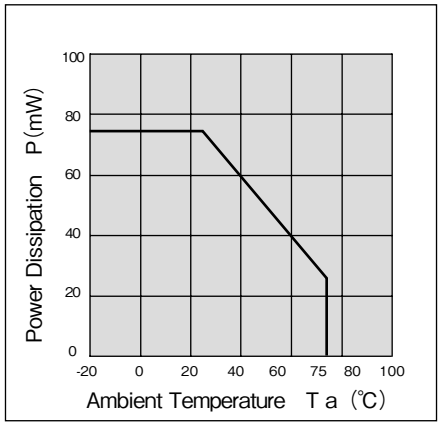
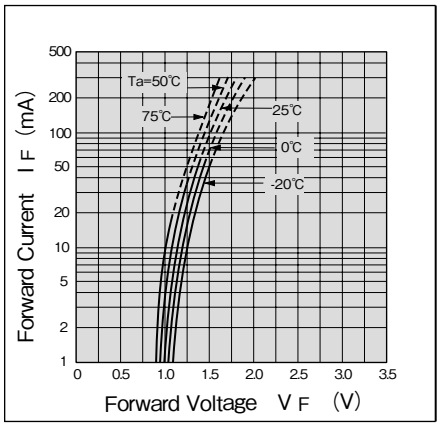
Note: Operation never exceeds each value of Absolute Maximum Ratings.

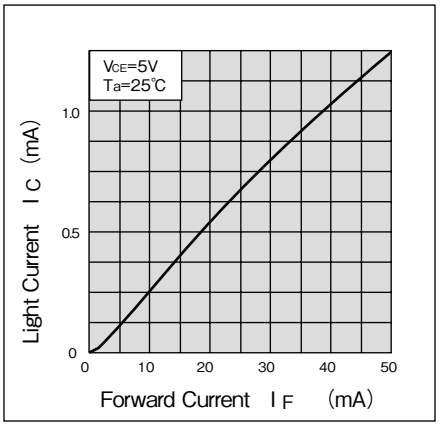
Collector Power Dissipation vs. Ambient Temperature



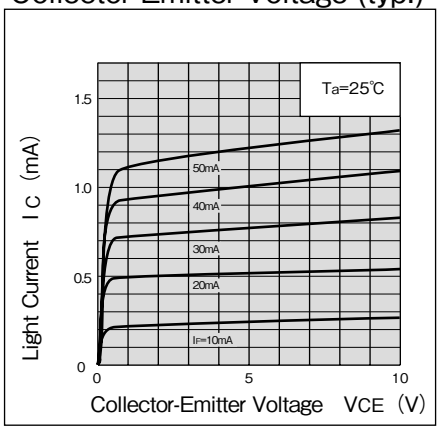
Forward Current vs. Forward Voltage (typ.)



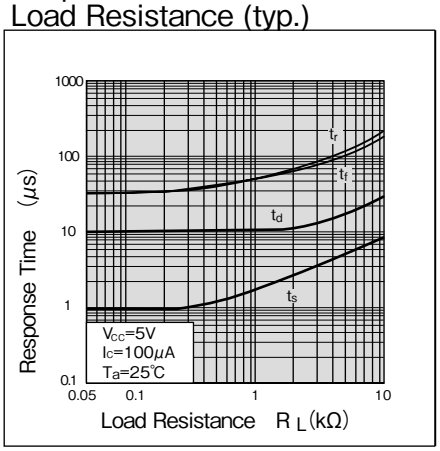
Light Current vs. Forward Current (typ.)



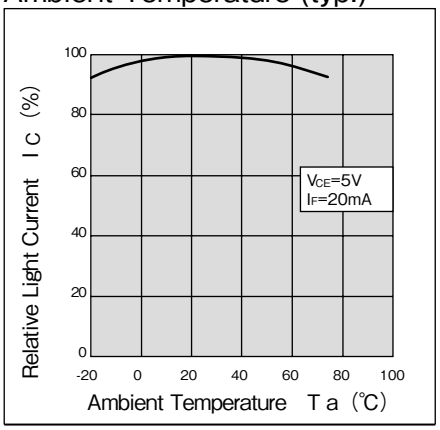
Light Current vs. Collector-Emitter Voltage (typ.)



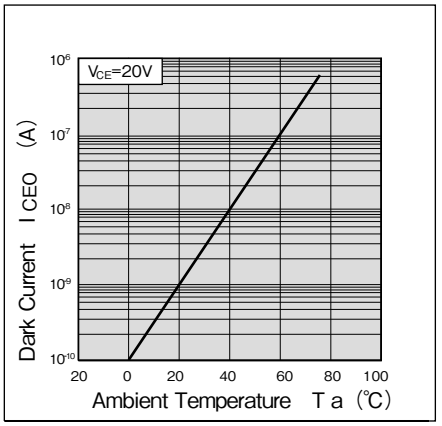
Response Time vs. Load Resistance (typ.)



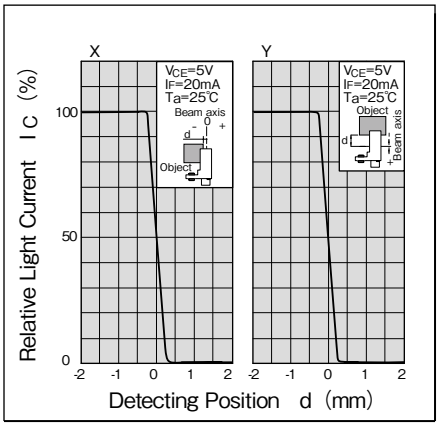
Relative Light Current vs. Ambient Temperature (typ.)



Dark Current vs. Ambient Temperature (typ.)



Detecting Position vs. Relative Light Current (typ.)



・A Custom designed package is available on request.

・Specification are subject to change without notice.

06.10-1A

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