

KRT-11XSx4N

Description

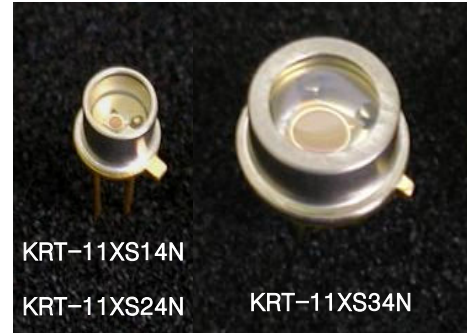
KRT-11XSx4N is InGaAs PIN Photodiode TO CAN package with BIG size PD active diameter(Ø1.0 , Ø2.0 , Ø3.0mm)
 It is recommended for Laser diode life test and optical power monitoring.
 KRT -11XSx4N series operate at both 0.9um and 1.6um wavelength range .

Features

- 3(2) pin TO CAN package with hermetically sealed PIN PD
- Wide operating temperature range from -40 °C to 85 °C
- High performance and high reliability InGaAs PIN PD
- Wide operating wavelength range from 0.9um to 1.6um

Applications

- Laser diode power monitoring
- Laser diode life test
- Counterfeiting money Sensing Sensor.
- Optical switch



Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Reverse Voltage	V _{R max.}	10	V
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg.}	-40 ~ +100	°C
Soldering Temperature *1	T _{sol.}	270	°C

*1 : Soldering Time ≤ 10 seconds (At a distance of 1 mm from the package).

Electro-Optical Characteristics

Parameter	Symbol	Unit	KRT-11XS14N			KRT-11XS24N			KRT-11XS34N			Condition
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Active area	Ø	mm		1.0			2.0			3.0		
Dark Current	I _D	nA		1.0	5.0		2.0	10.0		10.0	50.0	@ V _R =5V, 25 °C
Responsivity	S	mA/mW	0.85			0.85			0.85			@ V _R =5V, 25 °C
			1.31um			0.90			0.90			
3dB Cut off frequency	f _C	MHz	18	35	-	4	8	-	2	4	-	@ V _R =5V, R _L =50Ω
Terminal Capacitance	C _T	pF		90	150		250	500		550	1000	@ V _R =5V, f=1MHz

* These specifications are subject to change without notice.

Ordering information

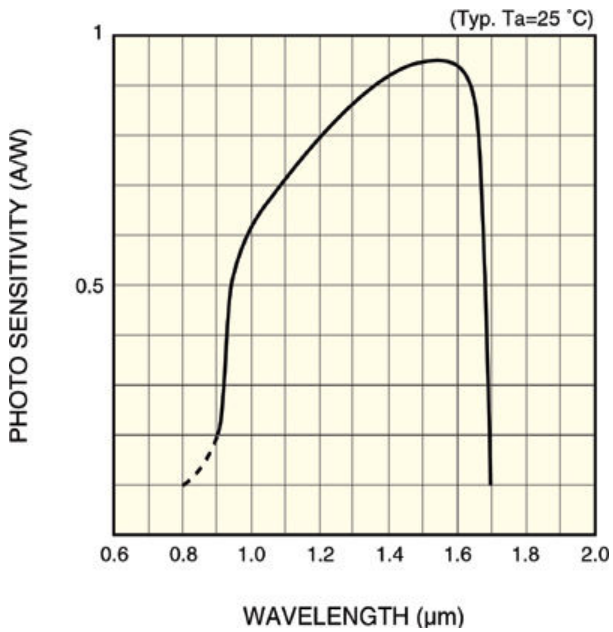
KRT	Device Type	Data Rate	Oper. Voltage	Active Area	Cap Type	Pin Config.		
						3(2)	4	5
KODENSHI Receiver TO CAN	1 : PIN-PD	1 : Monitoring	1 : 3.3 V	1 : Ø50 um	1 : long ball lens cap	C	P	A
	2 : PIN-TIA	2 : 155 Mbps	2 : 5 V	2 : Ø75 um	2 : short ball lens cap	C1	D	B
	6 : Analog PIN PD	3 : 1.25 Gbps	3 : 3.3/5 V	3 : 250 um sq.	3 : long flat window cap	W	I	J
		4 : 2.5 Gbps	x : NA	S1 : Ø1.0 mm	4 : short flat window cap	H	T	K
		5 : 5Gbps		S2 : Ø2.0 mm				M
				S3 : Ø3.0 mm				

The engineering spec can be revised without any previous notice.

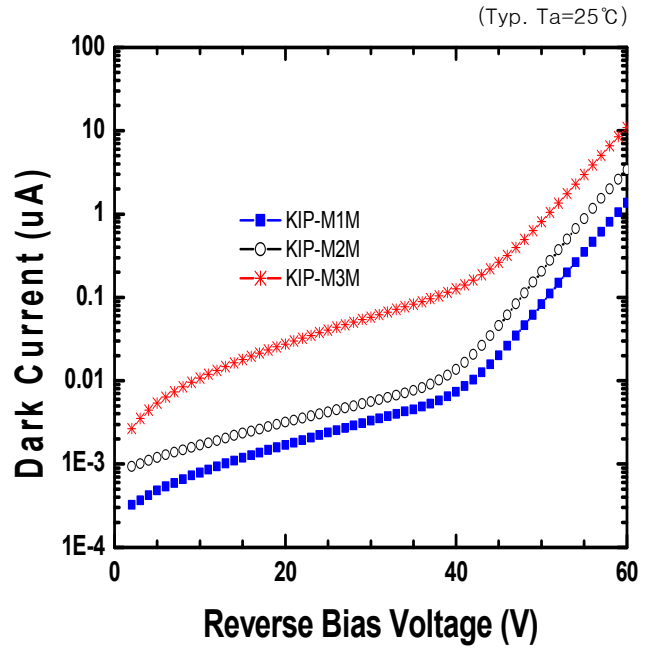
When customer's applying, please request us a revised specification before submitting the specification to the customers.

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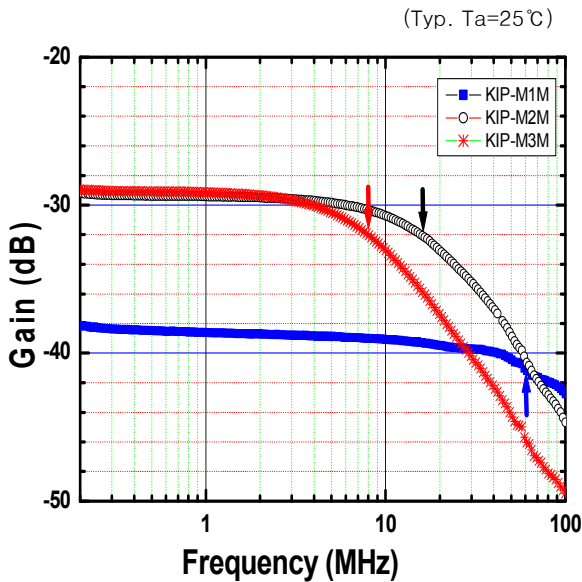
■ Spectral response range



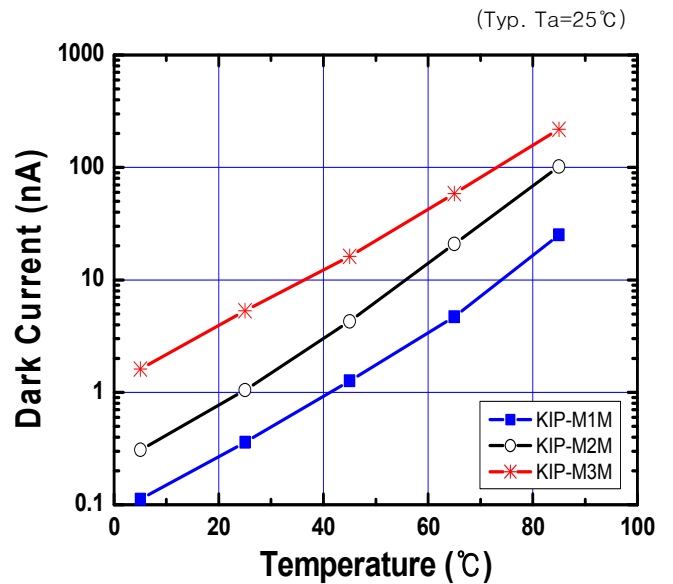
■ Dark Current vs Reverse Voltage



■ -3dB Cutoff Frequency



■ Dark Current vs Operating Temperature

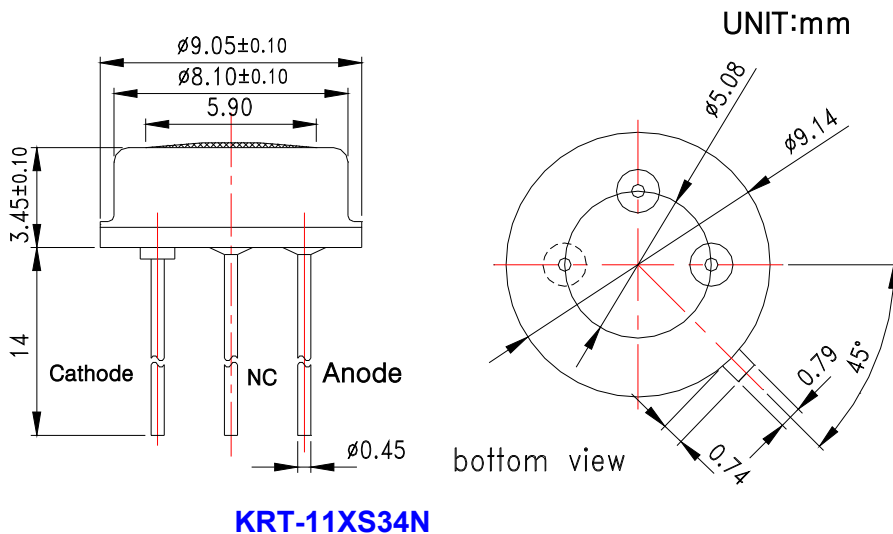
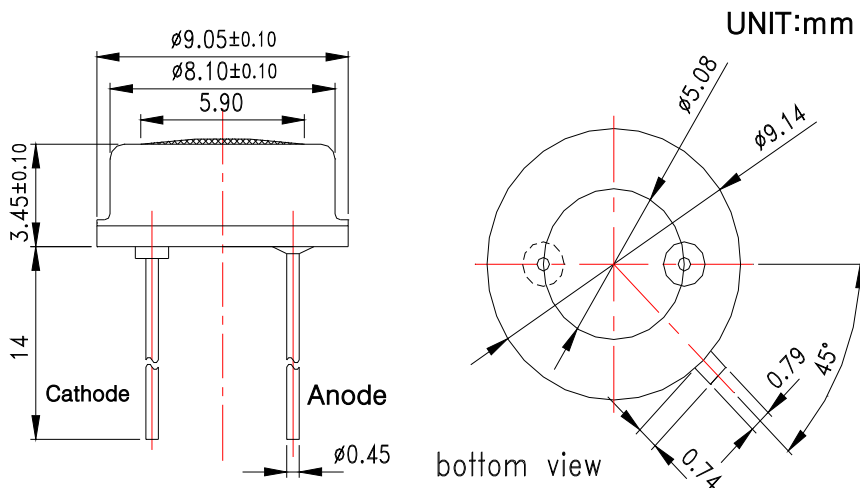
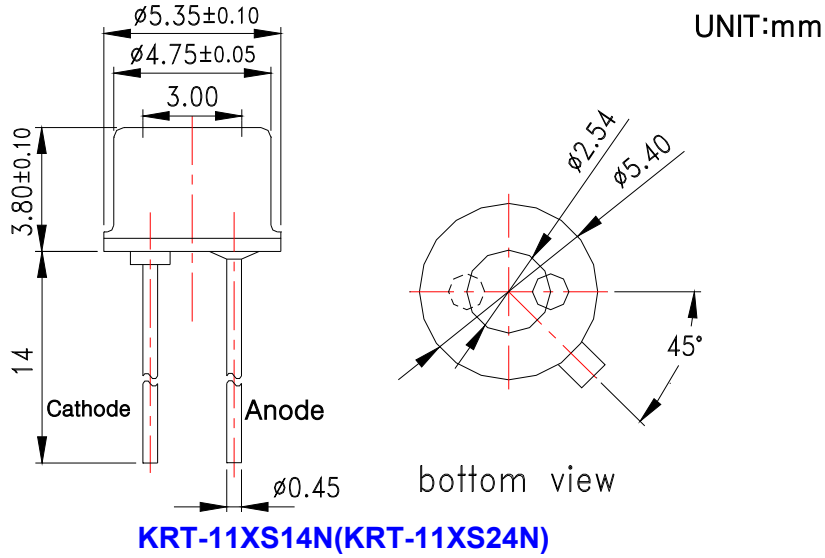


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■ TO CAN package out dimension & Pin connections



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