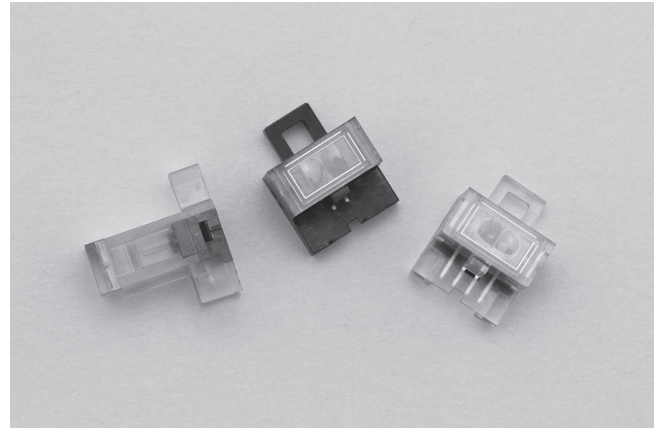
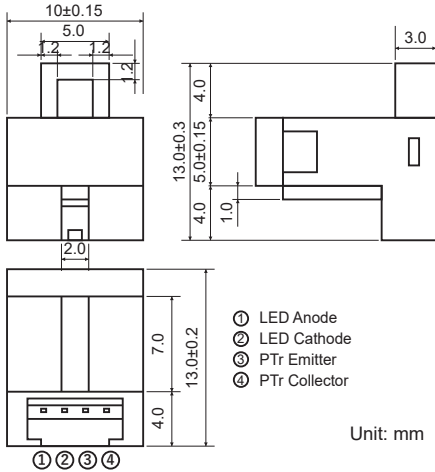


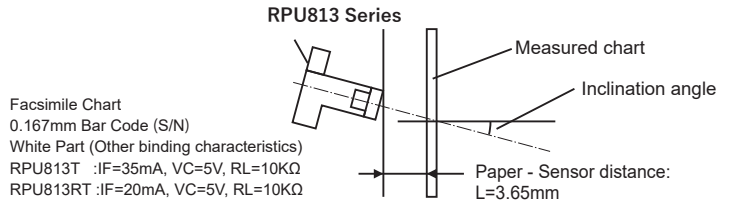
● Photo Reflector (Bar Code Sensor)

Applications

- Bar code reader
- Dot detection
- Paper Edge detection
- Dimensions



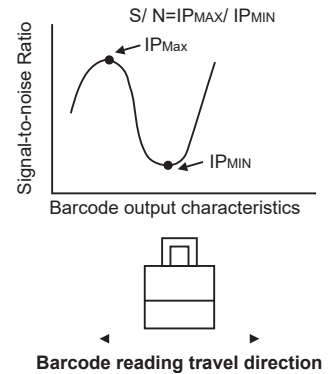
● Coupling Characteristic Measuring Method



● Absolute Maximum Ratings

Ta=25°C

Item	Symbol	Rating		Unit	
		RPU813T RPU813T-S	RPU813RT RPU813RT-S		
Emitter	Forward Current	IF	40	30	mA
	Reverse Voltage	VR	5.5	5.0	V
	Power Dissipation	P	60		mW
Detector	Collector-Emitter Voltage	VCEO	20		V
	Emitter-Collector Voltage	VECO	5		V
	Collector Dissipation	PC	40		mW
Operating Temperature	Topr	-0~65		°C	
Storage Temperature	Tstg	-10~70		°C	



● Electro-Optical Characteristics

Ta=25°C

Item	Symbol	Condition	RPU813T			RPU813T-S			Unit	
			min.	typ.	max.	min.	typ.	max.		
Emitter	Forward Voltage	VF	IF=20mA	-	1.4	1.8	-	1.4	1.8	V
	Reverse Current	IR	VR=5V	-	-	10	-	-	10	μA
	Peak Wavelength	λp	IF=20mA	-	910	-	-	910	-	nm
Detector	Collector-Emitter Voltage	ICEO	IC=100μA	20	-	-	20	-	-	V
	Dark Current	ID	VCE=5V	-	-	60	-	-	60	μA
Coupled	Light Current	IP	VC=5V	4.5	18	60	10	18	-	μA
	Signal-to-noise Ratio	-	IP/ ILEAK	2.5	3.6	-	1	1.5	-	-
	Optimum Sensitivity	L	*	-	3.65	-	-	3.65	-	mm
	Depth of Focus	ΔL	-	-	0.9	-	-	2	-	mm

Item	Symbol	Condition	RPU813RT			RPU813RT-S			Unit	
			min.	typ.	max.	min.	typ.	max.		
Emitter	Forward Voltage	VF	IF=20mA	-	1.8	2.2	-	1.8	2.2	V
	Reverse Current	IR	VR=5V	-	-	10	-	-	10	μA
	Peak Wavelength	λp	IF=20mA	-	660	-	-	660	-	nm
Detector	Collector-Emitter Voltage	ICEO	IC=100mA	20	-	-	20	-	-	V
	Dark Current	IC	VCE=5V	-	-	60	-	-	60	μA
Coupled	Light Current	IP	VC=5V	2.5	10	25	7	10	-	μA
	Signal-to-noise Ratio	-	IP/ILEAK	2.5	5	-	1	1.5	-	-
	Optimum Sensitivity	L	*	-	3.65	-	-	3.65	-	mm
	Depth of Focus	ΔL	-	-	0.8	-	-	2	-	mm