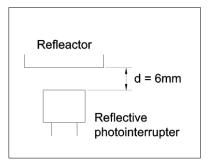
•Electrical and optical characteristics ($T_a = 25^{\circ}C$)

Parameter		Symbol	Conditions	Values			L lus it
				Min.	Тур.	Max.	Unit
Input characteristics	Forward voltage	V _F	I _F =50mA	-	1.34	1.6	V
	Reverse current	I _R	V _R =5V	-	-	10	μΑ
Output characteristics	Dark current	I _{CEO}	V _{CE} =10V	-	-	0.5	μΑ
	Peak sensitivity wavelength	λ_{p}	-	-	800	-	nm
Transfer characteristics	Collector current	I _C	V _{CE} =2V, I _F =10mA *	0.08	0.3	0.8	mA
	Collector-emitter saturation voltage	V _{CE(sat)}	I _F =20mA, I _C =0.1mA *	-	0.1	0.3	V
	Response time	tr∙tf	V _{CC} =5V, I _F =20mA, R _L =100Ω *	-	10	-	μs
Infrared light emitter diode	Cut-off frequency	f _C	I _F =50mA * Non-coherent Infrared light emitting diode used.	-	1	-	MHz
	Peak light emitting wavelength	λ_{p}		-	940	-	nm
Photo transistor	Response time	tr∙tf	V_{CC} =5V, I_C =1mA, R_L =100 Ω *This product is not designed to be protected against electromagnetic wave.	-	10	-	μS
	Maximum sensitivity wavelength	λ_p	-	-	800	-	nm

* Reflector object : Standard white paper. (Reflection ratio = 90%)



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•Electrical and optical characteristics curves

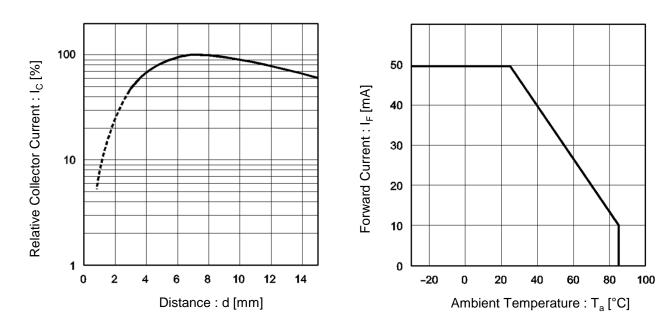
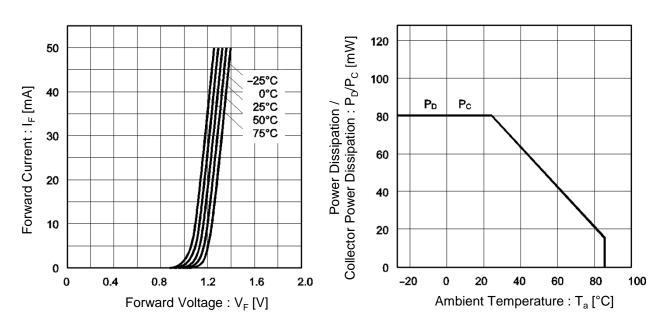


Fig.1 Relative Output Current vs.Distance

Fig.2 Forward Current vs.Ambient Temperature

Fig.3 Forward Current vs. Forward Voltage

Fig.4 Power Dissipation / Collector Power Dissipation vs. Ambient Temperature



2.4

2.2

2.0

1.8

1.6 1.4

1.2 1.0

0.8

0.6

0

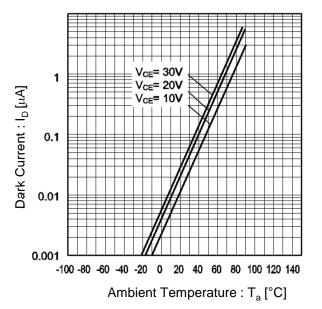
0

•Electrical and optical characteristics curves

Fig.5 Relative Output vs. Ambient Temperature

Fig.6 Collector Current vs. Forward Current

Fig.8 Dark Current vs. Ambient Temperature



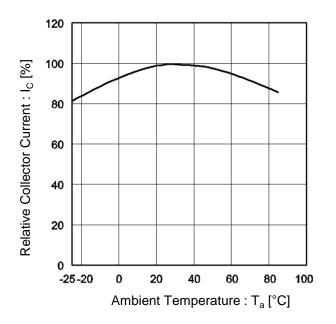


Fig.7 Output Characteristics

10

5

15

Collector to Emitter Voltage : V_{CE} [V]

Standard white paper

I_F= 40mA

30mA

20mA

15mA

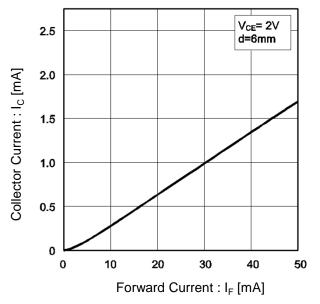
10mA

5mA

25

20

(90%reflection) d= 6mm



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2)	Before you use our Products, please contact our sales representative and verify the latest specifica- tions :						
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rpr-220 - Web Page

Distribution Inventory

Part Number	rpr-220
Package	DIP
Unit Quantity	500
Minimum Package Quantity	500
Packing Type	Bulk
Constitution Materials List	inquiry
RoHS	Yes