●Electrical and optical characteristics (Ta = 25°C)

1) Input characteristics

Parameter	Symbol	Conditions -	Values			Unit
	Syllibol		Min.	Тур.	Max.	Offic
Forward voltage	V_{F}	I _F =50mA	-	1.3	1.6	V
Reverse current	I _R	V _R =5V	-	-	10	μΑ

2) Output characteristics

Parameter	Symbol	Symbol Conditions	Values			Unit
	Syllibol		Min.	Тур.	Max.	Offic
Dark current	I _{CED}	V _{CE} =10V	-	ı	0.5	μΑ
Peak sensitivity wavelength	λ_{p}	-	-	800	1	nm

3) Transfer characteristics

Parameter		Symbol	Conditions	Values			Unit
		Gylfibol		Min.	Тур.	Max.	Offic
Collector current		I _C	$V_{CE} = 5V, I_F = 5mA$	100	ı	ı	
DC leakage curre	ent	I _{leak}	$V_{CE} = 5V, I_F = 5mA$	-	-	15	μΑ
Collector-emitter sa	turation voltage	V _{CE(sat)}	$I_F = 20 \text{mA}, I_C = 0.1 \text{mA}$	-	-	0.4	V
Posponeo timo	Rise time	tr	V_{CC} =5V, I_F =20mA	-	10	-	mo
Response time	Fall time	tf	$R_L=100\Omega$	-	10	-	ms

4) Infrared light emitter diode

Parameter	Cumbal	Conditions	Values			l lmit
	Symbol		Min.	Тур.	Max.	Unit
Cut-off frequency	f _C	-I _F =50mA* ¹	-	1	-	MHz
Peak light emitting wavelength	λ_{P}		1	950	-	nm

^{*1} Non-coherent Infrared light emitting diode used.

5) Phototransistor

Parameter	Symbol	bol Conditions -	Values			Unit
	Symbol		Min.	Тур.	Max.	Offic
Response time	tr∙tf	$V_{CC}=5V, I_{C}=1mA,$ $R_{L}=100W*^{2}$	-	10	-	μS
Maximum sensitivity wavelength	λ_{P}	-	-	800	-	nm

^{*2} This product is not designed to be protected against electromagnetic wave.



•Electrical and optical characteristic curves

Fig.1 Forward Current A Falloff

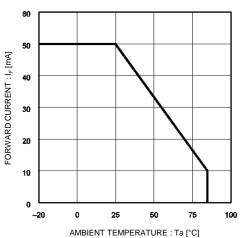


Fig.3 Power Dissipation / Collector Power Dissipation vs. Ambient Temperature

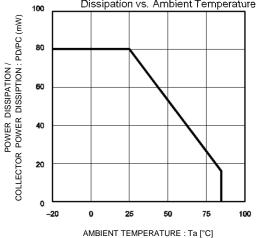


Fig.5 Collector Current vs. Forward Current

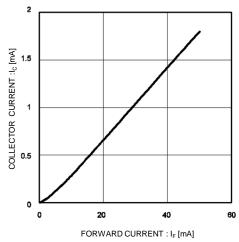


Fig.2 Forward Current vs. Forward Voltage

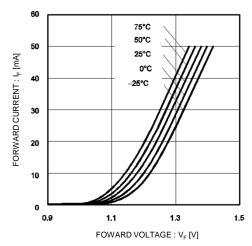


Fig.4 Relative Output vs. Ambient Temperature

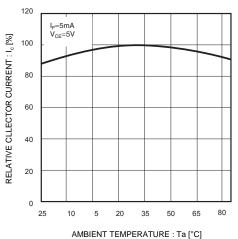
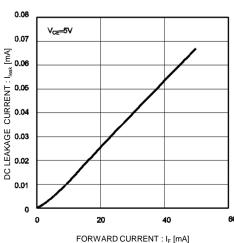


Fig.6 DC Leakage Current vs. Fforward Current



•Electrical and optical characteristic curves

Fig.7 Response Time vs. Collector Current

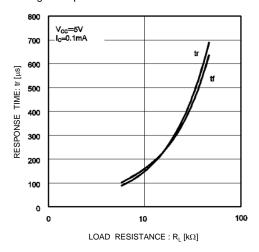


Fig.9 Output Characteristics

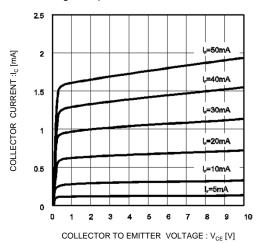


Fig.8 Dark Current vs. Ambient Temperature

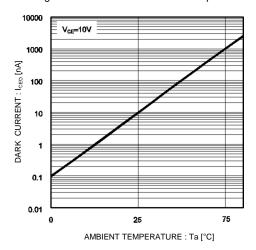
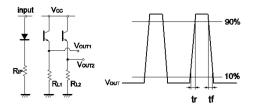


Fig.10 Response Time Measurement Circuit



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rpi-1035 - Web Page

Distribution Inventory

Part Number	rpi-1035
Package	RPI-1035
Unit Quantity	750
Minimum Package Quantity	750
Packing Type	Taping
Constitution Materials List	inquiry
RoHS	Yes