

1.PI 規格

■ Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol	Ratings	Unit
Input	Power Dissipation at(or below) 25°C Free Air Temperature	Pd	75	mW
	Reverse Voltage	V _R	5	V
	Forward Current	I _F	50	mA
	Peak Forward Current (*1) Pulse width ≤ 100 μs, Duty cycle=1%	I _{FP}	1	A
Output	Collector Power Dissipation	P _C	75	mW
	Collector Current	I _C	20	mA
	Collector-Emitter Voltage	B V _{CEO}	30	V
	Emitter-Collector Voltage	B V _{ECO}	5	V
Operating Temperature		T _{opr}	-25~+85	°C
Storage Temperature		T _{stg}	-40~+85	°C
Lead Soldering Temperature (*2)		T _{sol}	260	°C

(*1) tw=100 μsec., T=10 msec.

(*2) t=5 Sec

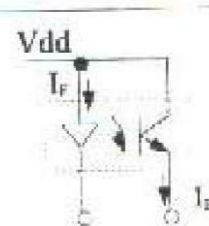
2. PI 特性

Electro-Optical Characteristics (Ta=25°C)

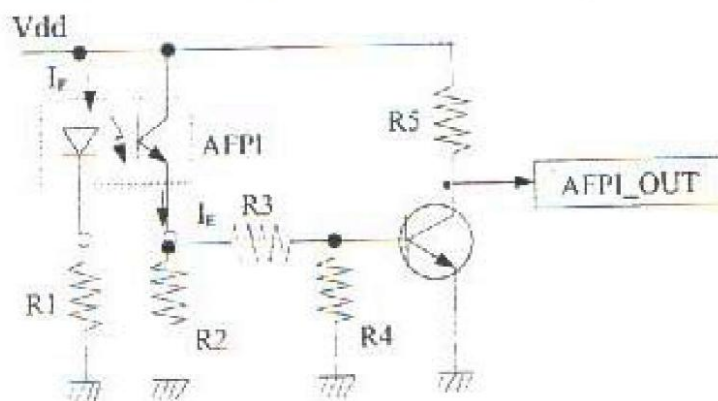
Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Input	Forward Voltage	V _F	---	1.2	1.6	V	I _F =20mA
	Reverse Current	I _R	---	---	10	μA	V _R =5V
	Peak Wavelength	λ _p	---	940	---	nm	---
Output	Dark Current	I _{CEO}	---	---	100	nA	V _{CE} =10V
	C-E Saturation Voltage	V _{CE(sat)}	---	---	0.4	V	I _C =2mA Ee=1mW/cm ²
Transfer Characteristics	Collector Current	I _{C(ON)}	50	---	---	μA	V _{CE} =5V, I _F =5mA
	Leakage Current	I _{CEOD}	---	---	1	μA	V _{CE} =5V I _F =20mA
	Rise time	t _r	---	15	---	μsec	V _{CE} =2V I _C =1mA R _L =1KΩ
	Fall time	t _f	---	15	---	μsec	

3. Photo sensor for AF Step Control

Standard Position of AF Step detected by Photo interrupter.

Terminal Name	Circuit	Electric characteristic (25℃)					Remarks	
		Item	Specification			Unit		Measure Condition
			Min	St.	Max.			
AFPI		I_F	0.2	-	-	mA	$I_L = 10\text{mA}$ $V_{CE} = 4.0\text{V}$	
		V_F		1.3	1.6	V	$I_L = 50\text{mA}$	
		Cut-off current			10	μA	$V_{CE} = 4.0\text{V}$	

*. AFPI Circuit(reference)



* $V_{dd} : 4.0\text{V} \pm 0.2\text{V}$

$R1 : 390 \Omega$

$R2 : 10 \text{ K}\Omega$

$R3 : 4.7 \text{ K}\Omega$

$R4 : 10 \text{ K}\Omega$

$R5 : 33 \text{ K}\Omega$