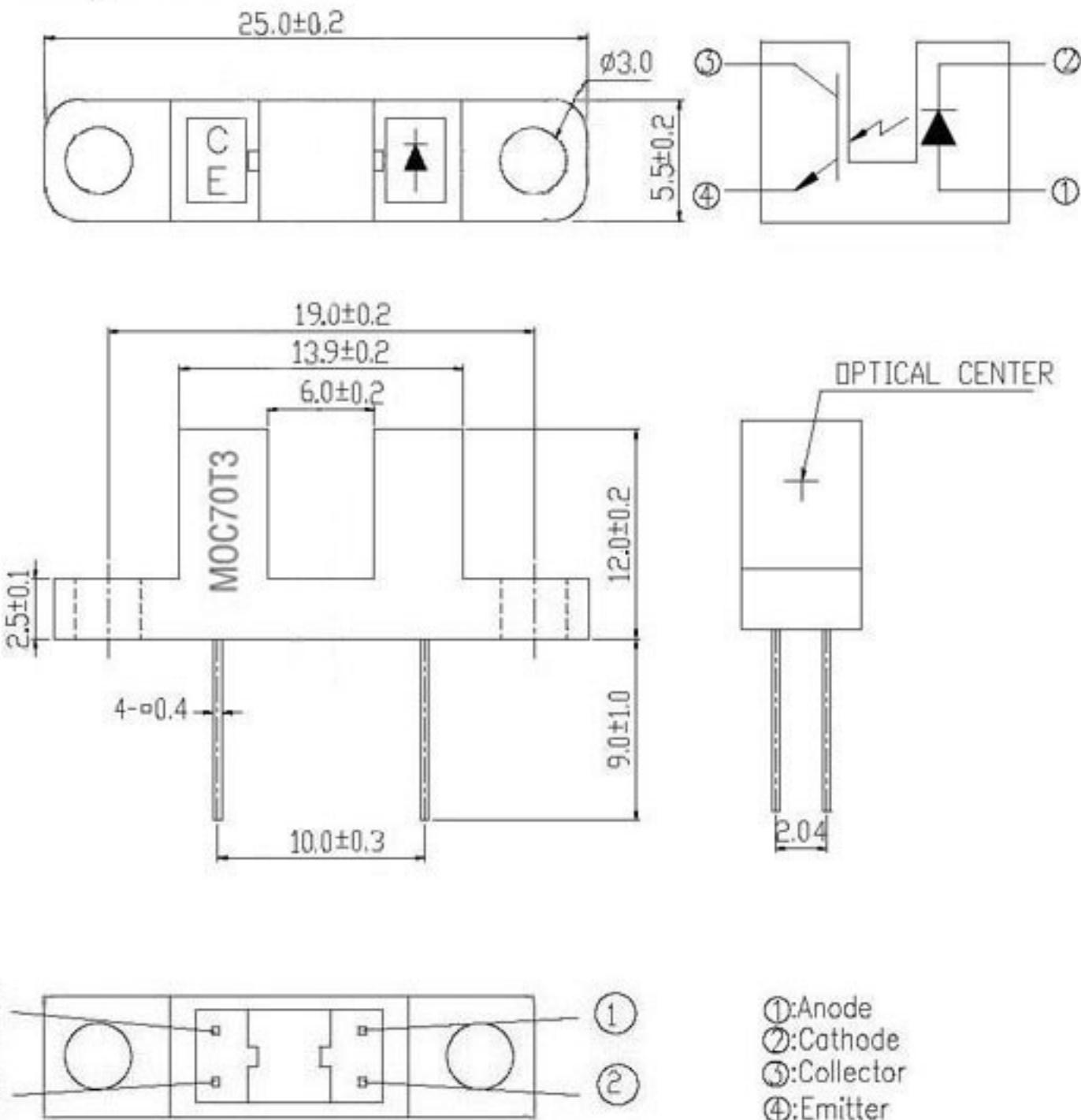


■ Package Dimensions



Model No: MOC70T3

■ 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) (1/16 inch from body for 5 seconds)		T _{sol}	260	°C

(*1) tw=100 μsec., T=10 msec. (*2) t=5 Sec

■ Electro-Optical Characteristics (Ta=25°C)

Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Input	Forward Voltage	V _{F1}	---	1.2	1.5	V	I _F =20mA
		V _{F2}	---	1.4	1.85		I _F =100mA, tp=100 μs, tp/T=0.01
		V _{F3}	---	2.6	4.0		I _F =1A, tp=100 μs, tp/T=0.01
	Reverse Current	I _R	---	---	10	μA	V _R =5V
Output	Peak Wavelength	λ _P	---	940	---	nm	I _F =20mA
	View Angle	2θ1/2	---	60	---	Deg	I _F =20mA
	Dark Current	I _{CEO}	---	---	100	nA	V _{CE} =20V, Ee=0mW/cm ²
	C-E Saturation Voltage	V _{CE} (sat)	---	---	0.4	V	I _C =2mA , Ee=1mW/cm ²
Transfer Characteristics	Collect Current	I _C (ON)	0.5	---	10	mA	V _{CE} =5V I _F =20mA
	Rise time	t _r	---	15	---	μ sec	V _{CE} =5V I _C =1mA R _L =1KΩ
	Fall time	t _f	---	15	---	μ sec	

■ Typical Electrical/Optical/Characteristics Curves for IR

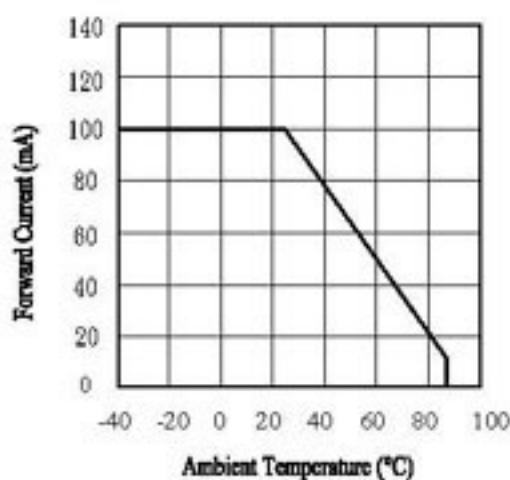
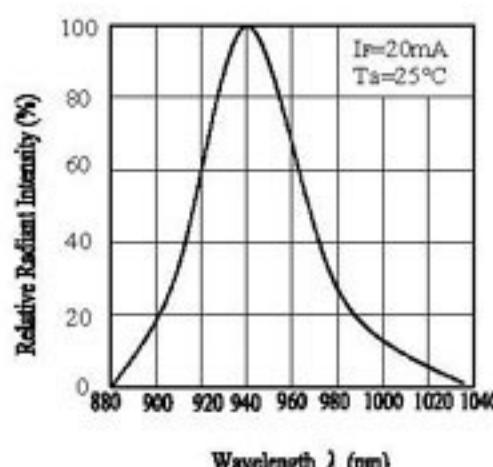
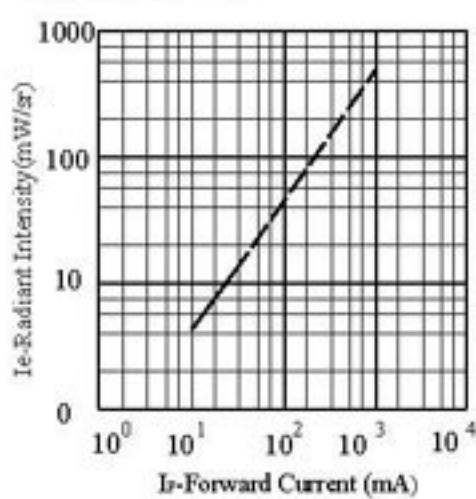
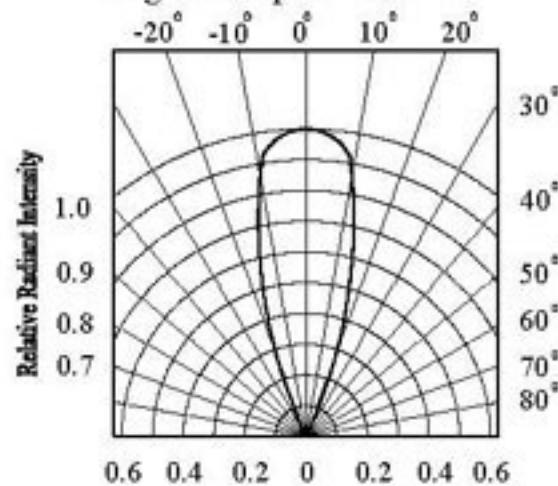
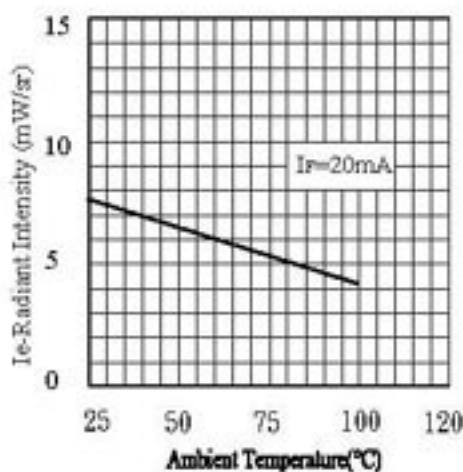
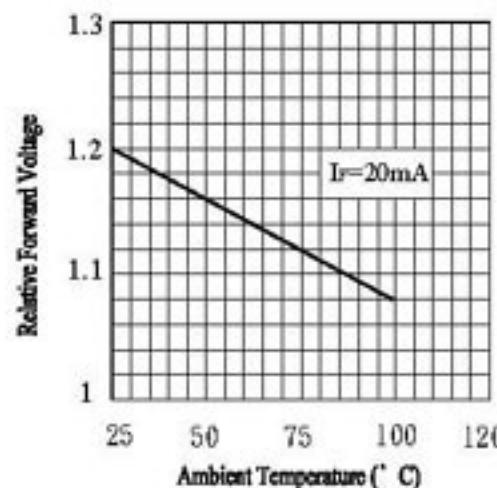
Fig.1 Forward Current vs.
Ambient Temperature

Fig.2 Spectral Distribution

Fig.5 Relative Intensity vs.
Forward CurrentFig.6 Relative Radiant Intensity vs.
Angular DisplacementFig.7 Relative Intensity vs.
Ambient Temperature(° C)Fig.8 Forward Current vs.
Ambient Temperature(° C)

■ Typical Electrical/Optical/Characteristics Curves for PT

Fig.1 Collector Power Dissipation vs.
Ambient Temperature

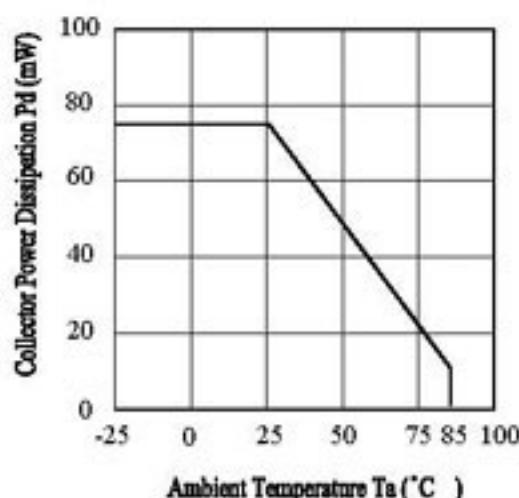


Fig.2 Spectral Sensitivity

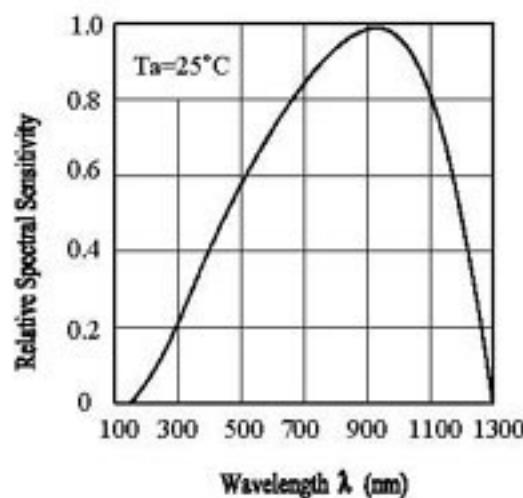


Fig.3 Relative Collector Current vs.
Ambient Temperature

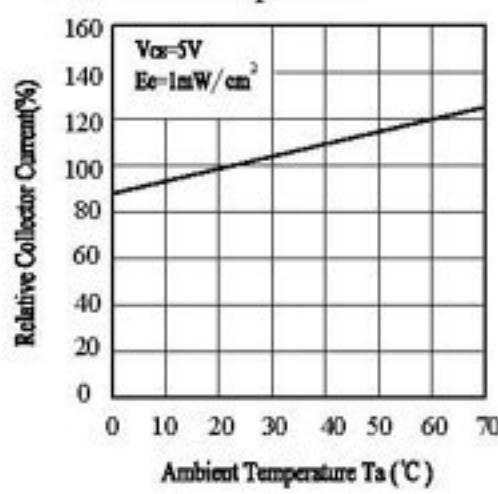


Fig.4 Collector Current vs.
Irradiance

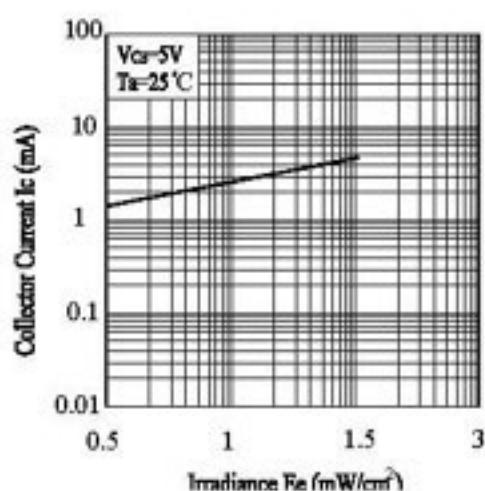


Fig.5 Collector Dark Current vs.

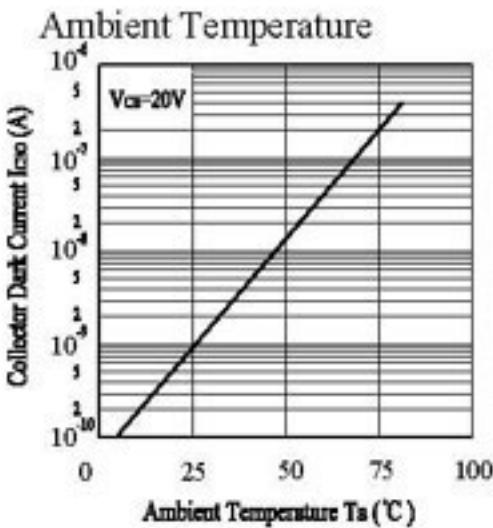


Fig.6 Collector Current vs.

