LG-ITR2C-502725-3.1

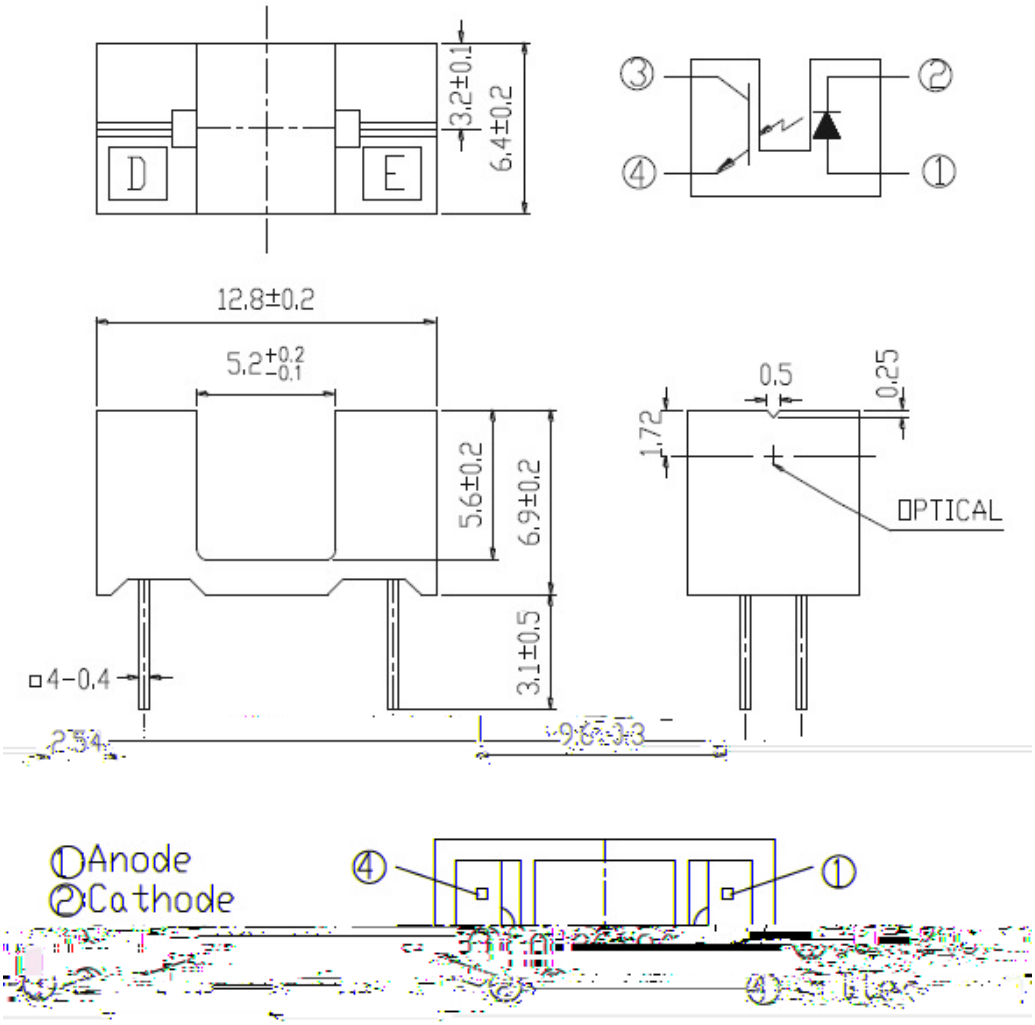
DATA SHEET

SPEC.NO.: SZ18080411
DATE: 2021/02/20
REV. A/4

Approved By: Checked By: Prepared By:

LIG

Package Dimensions



Notes:

1. All dimensions are in millimeters.
2.Tolerances unless dimensions ±0.2mm.

Absolute Maximum Ratings (Ta=25℃)

Parameter		Symbol	Ratings	Unit
Input	Power Dissipation at(or below) 25°C Free Air Temperature	P_d	75	mW
	Reverse Voltage	V_R	5	V
	Forward Current	I_F	50	mA
	Peak Forward Current(*1) Pulse width ≦100μs, Duty cycle=1%	I_{FP}	1	A
Output	Collector Power Dissipation	P_C	75	mW
	Collector Current	I_C	20	mA
	Collector-Emitter Voltage	V_{CEO}	30	V
	Emitter-Collector Voltage	V_{ECO}	5	V
Operating Temperature		T_{opr}	-25~+85	℃
Storage Temperature		T_{stg}	-40~+85	℃
Lead Soldering Temperature (*2) (1/16 inch from body for 5 seconds)		T_{sol}	260	℃

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

Electro-Optical Characteristics (Ta=25℃)

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
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	I_F=20mA
Output	Collector Dark Current	I_{CEO}	---	---	100	nA	V_{CE}=10V, Ee=0

Typical Electrical/Optical/Characteristics Curves for IR

Fig.1 Forward Current vs. Ambient Temperature

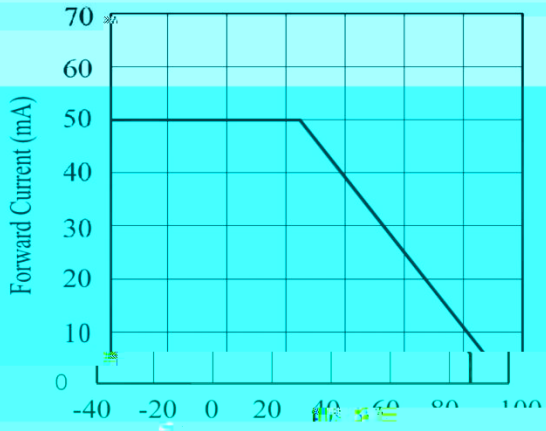


Fig.2 Spectral Distribution

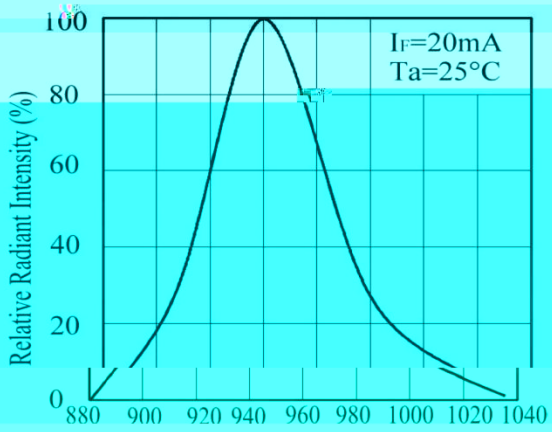


Fig.3 Forward Current vs. Forward Voltage

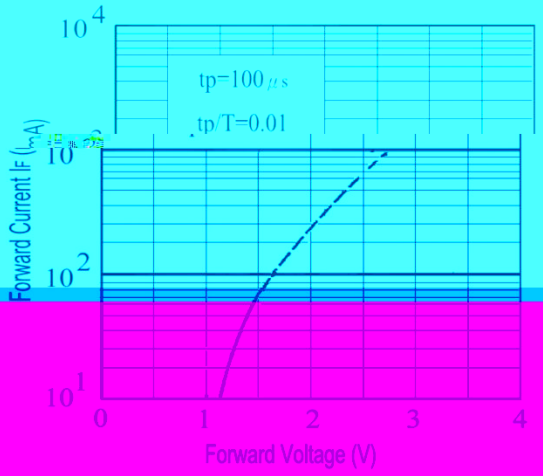
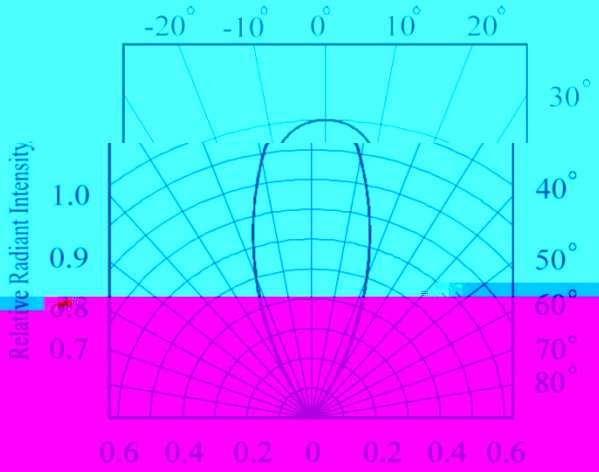


Fig. 4 Relative Radiant Intensity vs. Angular Displacement



Typical Electrical/Optical/Characteristics Curves for PT

Fig.1 Spectral Sensitivity

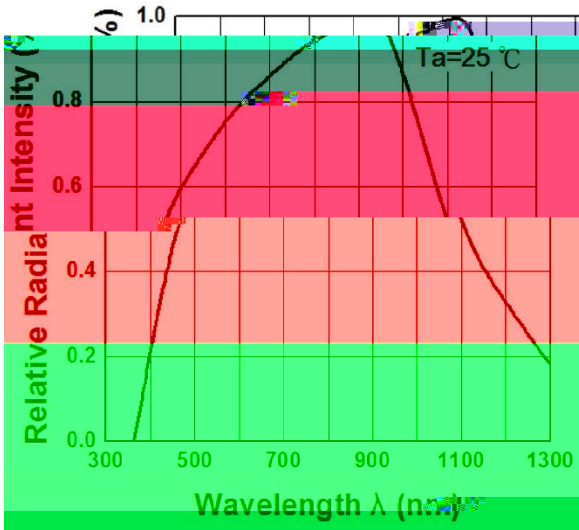


Fig.2 Collector Current vs. Irradiance

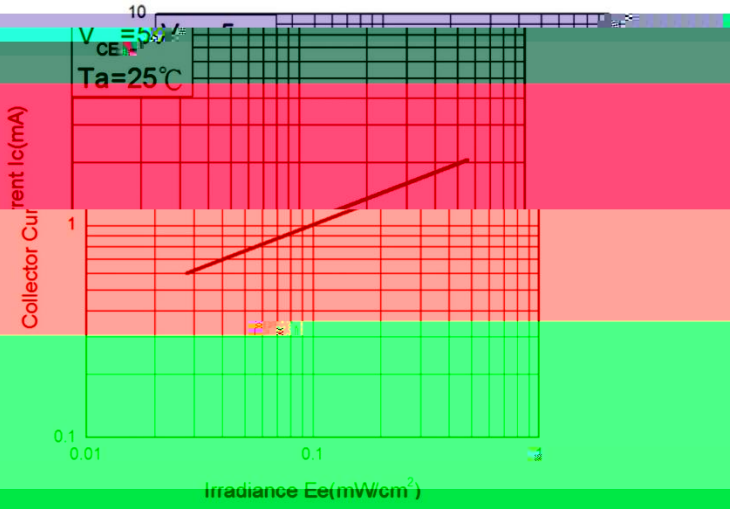
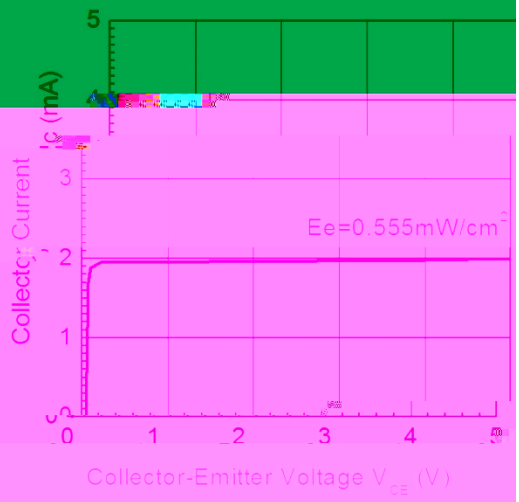



Fig.3 Collector Current vs. Collector-Emitter Voltage