

LG-ITR2C-502725-3.1

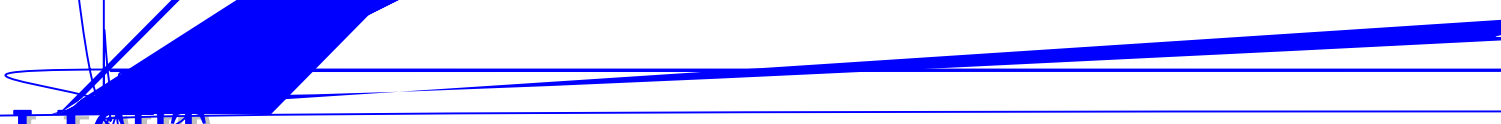
DATA SHEET

SPEC.NO.: SZ18080411
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REV. A/4

Approved By:

Checked By:

Prepared By:



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Absolute Maximum Ratings (Ta=25°C)

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 $\leq 100\mu s$, 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	°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) $t_w = 100 \mu sec.$, $T = 10 msec.$ (*2) $t = 5 Sec.$

Electro-Optical Characteristics (Ta=25°C)

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Input	Forward Voltage	V_F	---	12	16	V	$I_F = 20mA$
	Reverse Current	I_R	---	---	10	μA	$V_R = 5V$
	Peak Wavelength	λ_p	--	940	---	nm	$I_F = 20mA$
h	Collector Dark Current	I_{CEO}	---	---	100	nA	$V_{CE} = 10V,$ E
Output							

Typical Electrical/Optical/Characteristics Curves for IR

Fig.1 Forward Current vs. Ambient Temperature

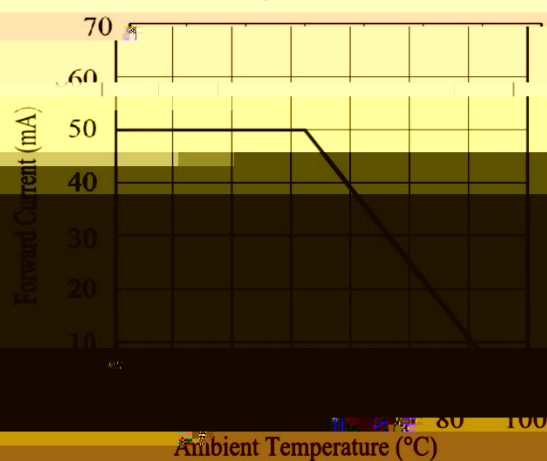


Fig.2 Spectral Distribution

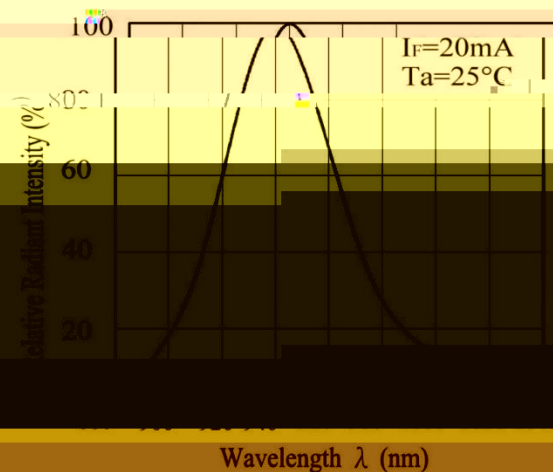


Fig.3 Forward Current vs.

Fig.4 Relative Radiant Intensity

■ Typical Electrical/Optical/Characteristics Curves for PT

Fig.1 Spectral Sensitivity

Fig.2 Collector Current vs. Irradiance

