Marktech Optoelectronics

Photo Reflector

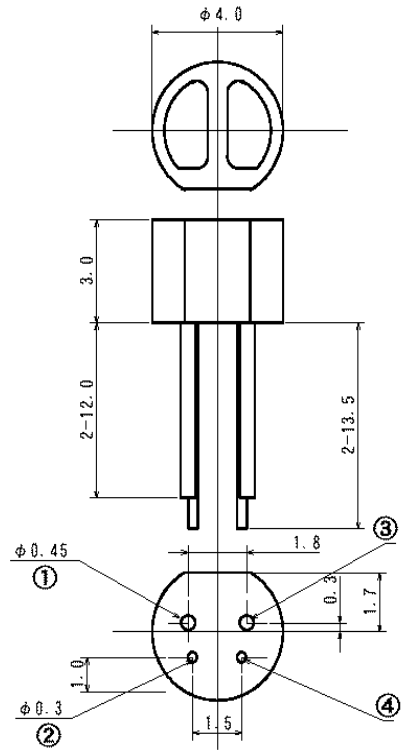
MTRS5250T

Features

High Reliability
Compact Package

Applications

Card Reader
Bar Code Reader
Edge Sensing
Money/Bill Reader



① LED Cathode ③ PTR Collector
② LED Anode ④ PTR Emitter

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Test Condition	Unit
Forward Current	I_F	20	−	mA
Pulsed Forward Current	I_{FP}	50.00	tw=10μ S, T=10mS	A
Reverse Voltage	V_R	5	−	V
Power Dissipation	P_D	70.00	−	mW
Collector−Emitter Voltage	V_{CE}	50	−	V
Emitter−Collector Voltage	V_{EC}	5	−	V
Collector Current	I_C	50	−	mA
Operating Temperature	T_{opr}	−20 ~ +80	−	°C
Storage Temperature	T_{stg}	−30 ~+100	−	°C
Soldering Temperature	T_{sol}	260	for 5 sec. max	°C

Opto−Electrical Characteristics (Ta=25°C)

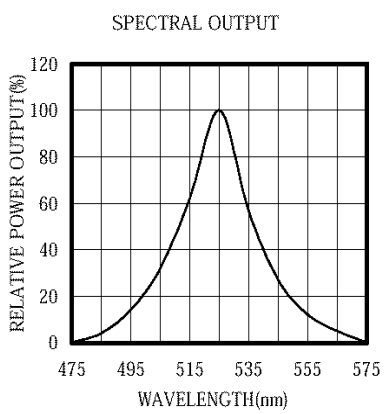
Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=20mA	−	3.50	4.00	V
Reverse Current	I_R	V_R=5V	−	−	10	μA
Light Current	I_L	IF=10mA,Vce=10V,d=1mm*	−	200.00	−	μA
Dark Current	I_D	Vce=10V	−	−	100	nA
Peak Sensitivity Wavelength	nm	I_F=20mA	−	520	−	nm
Spectral Line Half Width	Δλ	I_F=20mA	−	38	−	nm
Cross−Talk	I_X	IF=10mA,Vce=10V	−	−	200	nA
Rise Time	T_r	Vce=5V,Io=0.1mA,RL=1KΩ	−	2000	−	ns
Fall Time	T_f	Vce=5V,Io=0.1mA,RL=1KΩ	−	3000	−	ns

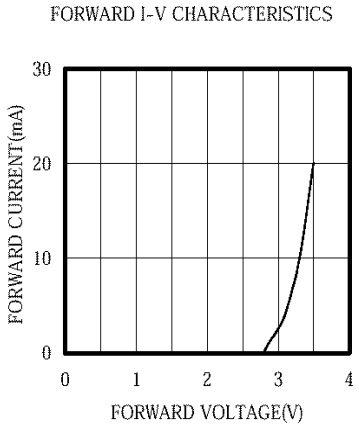
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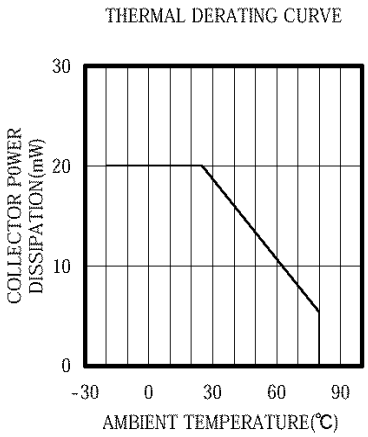
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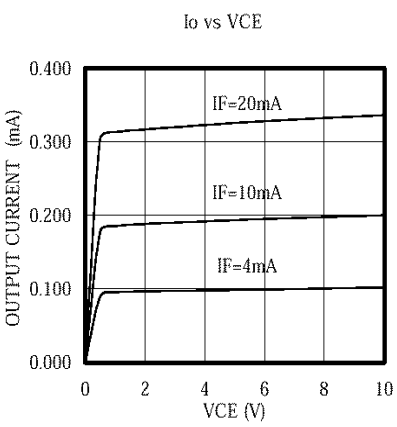
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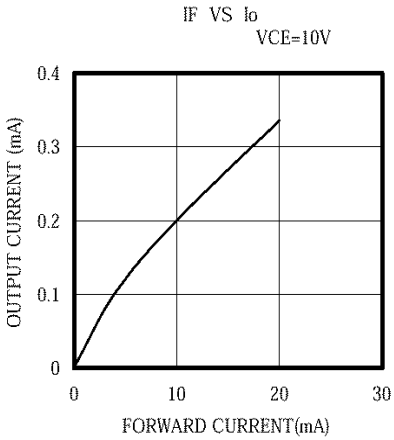
MTRS5250T Graphs

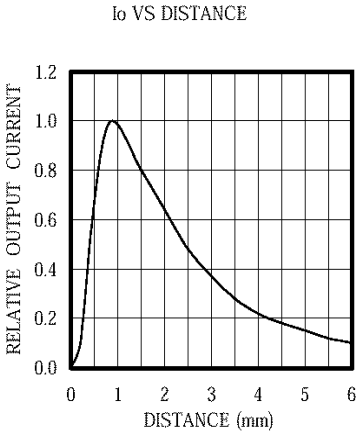












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