

MTRS5250

Features

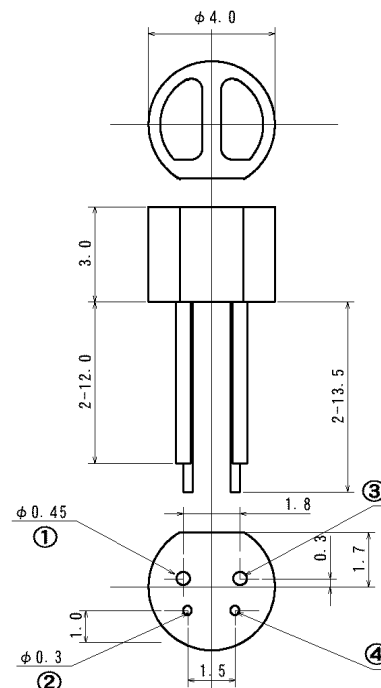
High Reliability
Compact

Applications

Card Reader
Bar-Code Reader
Edge Sensing
Money-Bill Reader

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=10μs, T=10mS	A
Reverse Voltage	V _R	4	—	V
Power Dissipation	P _D	100.00	—	mW
Operating Temperature	T _{opr}	-20 ~ +80	—	°C
Storage Temperature	T _{stg}	-30 ~+100	—	°C
Soldering Temperature	T _{sol}	260	for 5 sec. max	°C



- ① LED Cathode ③ PD Cathode
② LED Anode ④ PD Anode

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 =4V	—	—	10	μA
Light Current	I _L	I _F =10mA, V _R =10V, d=1mm*	—	.30	—	μA
Dark Current	I _D	V _R =10V	—	—	100	μA
Peak Sensitivity Wavelength	λ _p	I _F =20mA	—	520	—	nm
Spectral Line Half Width	Δλ	I _F =20mA	—	38	—	nm
Cross-Talk	I _x	I _F =10mA, V _R =10V	—	10	—	%
Rise Time	T _r	V _R =10V, I _F =10mA, R _L =1KΩ	—	10000.00	—	ns
Fall Time	T _f	V _R =10V, I _F =10mA, R _L =1KΩ	—	10000.00	—	ns

*Measured by reflecting with Aluminum evaporated mirror (d=1.00mm)

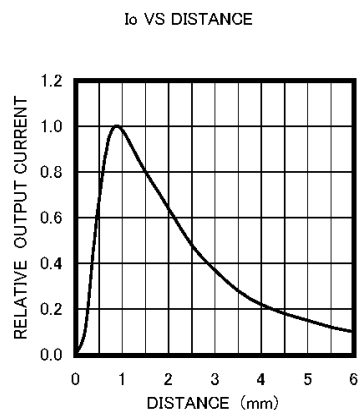
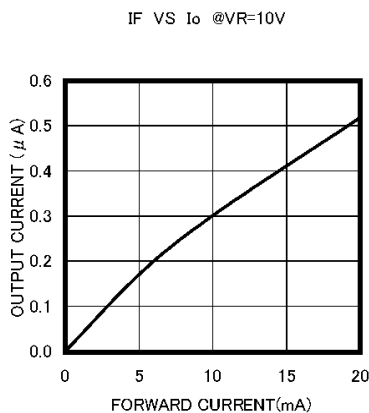
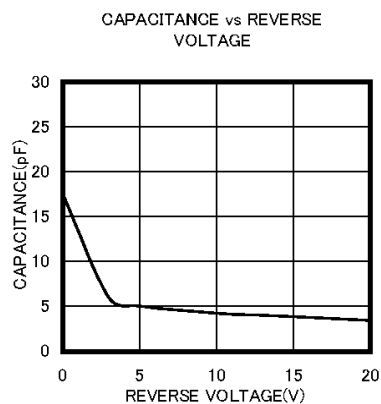
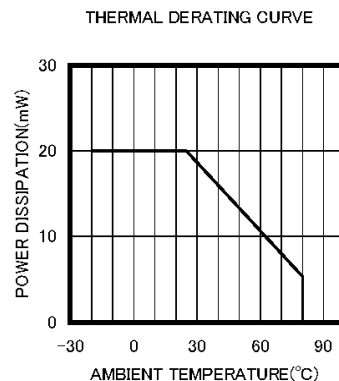
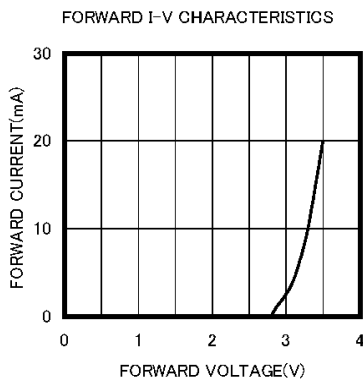
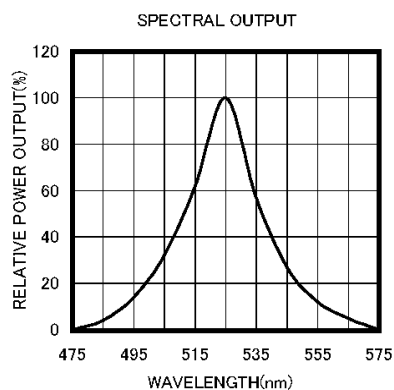
Company Headquarters

3 Northway Lane North
Latham, New York 12110
Toll Free: 800.984.5337
Fax: 518.785.4725

West Coast Sales Office

950 South Coast Drive, Suite 225
Costa Mesa, California 92626
Toll Free: 800.984.5337
Fax: 714.850.9314

MTRS5250 Graphs



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