

MTRS6140

Features

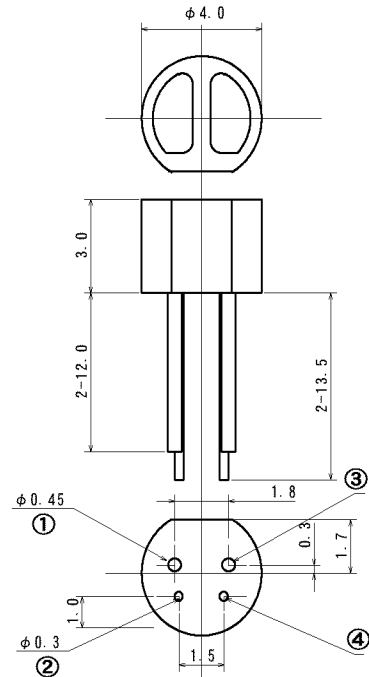
High Reliability
Compact

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	30	–	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

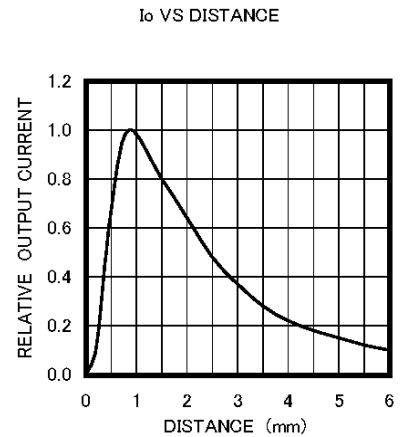
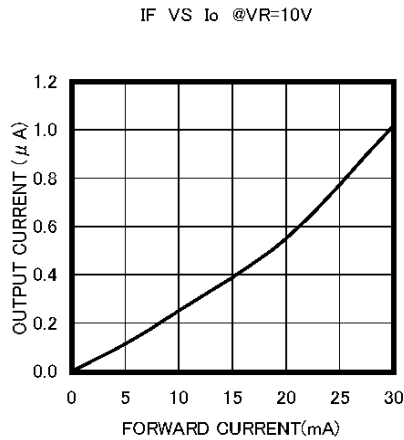
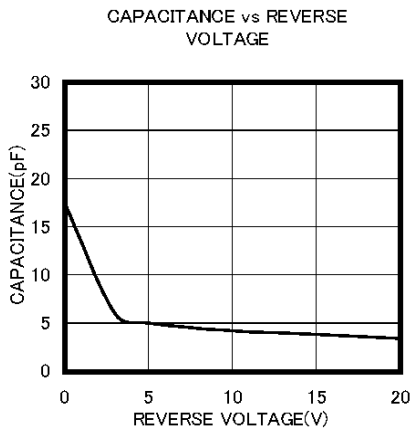
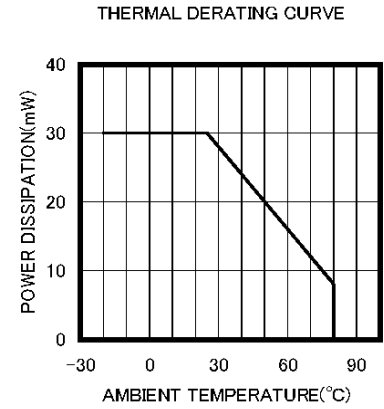
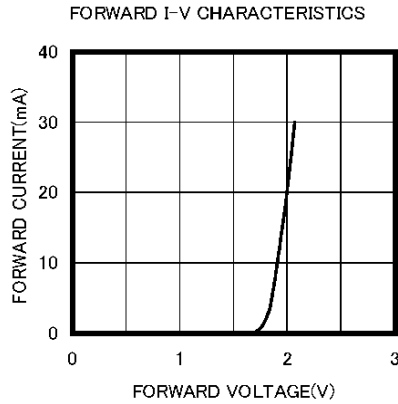
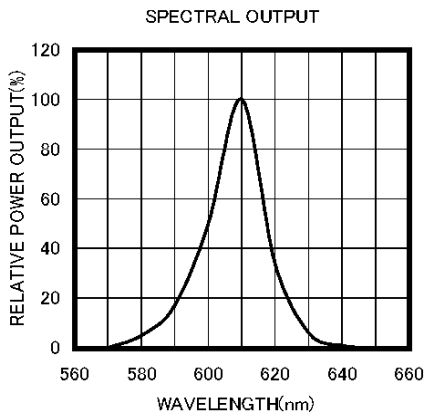
Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =20mA	–	2.00	2.50	V
Reverse Current	I _R	V _R =4V	–	–	10	μA
Light Current	I _L	I _F =20mA, V _R =10V, d=1mm*	–	.55	–	μA
Dark Current	I _D	V _R =10V	–	–	100	μA
Peak Sensitivity Wavelength	λ _p	I _F =20mA	–	610	–	nm
Spectral Line Half Width	Δλ	I _F =20mA	–	35	–	nm
Cross-Talk	I _x	I _F =20mA, V _R =10V	–	–	10	%
Rise Time	T _r	V _R =10V, I _F =20mA, R _L =1KΩ	–	1000.00	–	ns
Fall Time	T _f	V _R =10V, I _F =20mA, R _L =1KΩ	–	1000.00	–	ns

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

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MTRS6140 Graphs



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