

MTRS6140T

Features

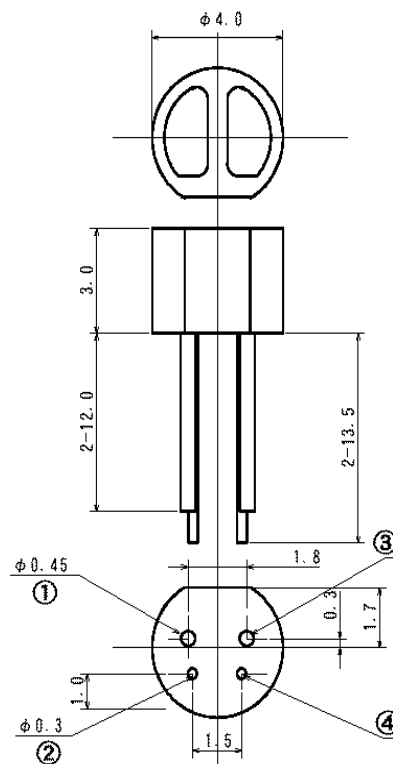
High Reliability
Compact Package

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}	.10	tw=10μs, T=10mS	A
Reverse Voltage	V _R	5	—	V
Power Dissipation	P _D	65.00	—	mW
Collector-Emitter Voltage	V _{CE}	20	—	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



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

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 =5V	—	—	10	μA
Light Current	I _L	I _F =20mA, V _{ce} =10V, d=1mm*	—	400.00	—	μA
Dark Current	I _D	V _{ce} =10V	—	—	100	nA
Peak Sensitivity Wavelength	nm	I _F =20mA	—	612	—	nm
Spectral Line Half Width	Δλ	I _F =20mA	—	15	—	nm
Cross-Talk	I _x	I _F =20mA, V _{ce} =10V*	—	—	200	nA
Rise Time	T _r	V _{ce} =5V, I _o =0.1mA, R _L =1KΩ	—	2000	—	ns
Fall Time	T _f	V _{ce} =5V, I _o =0.1mA, R _L =1KΩ	—	3000	—	ns

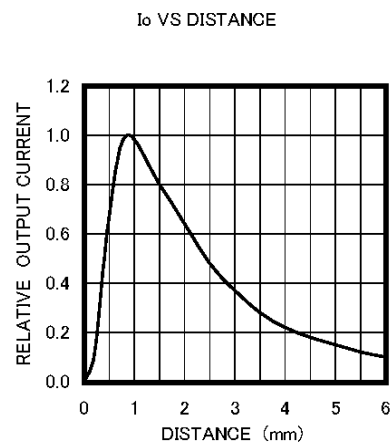
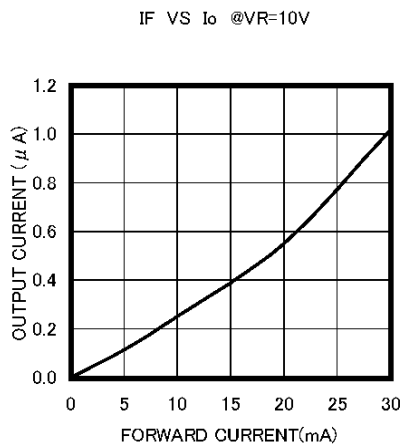
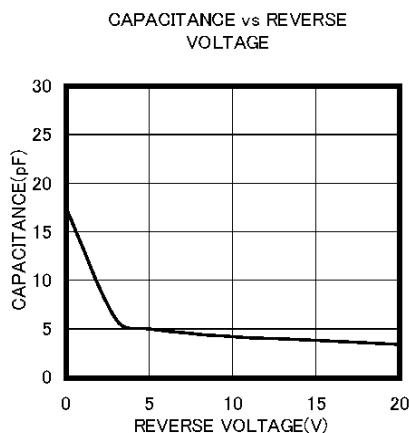
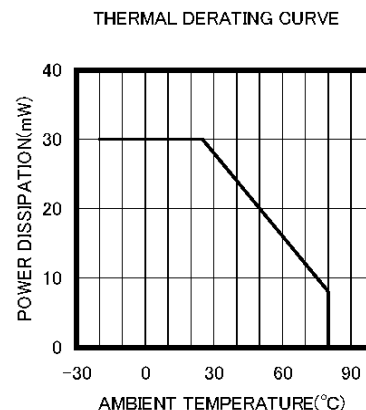
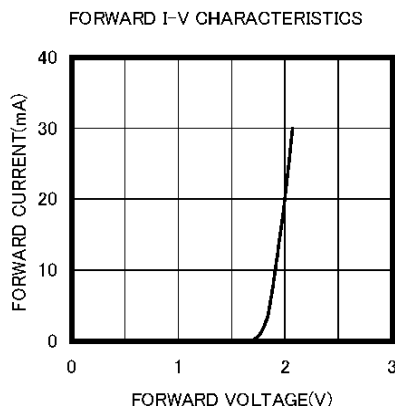
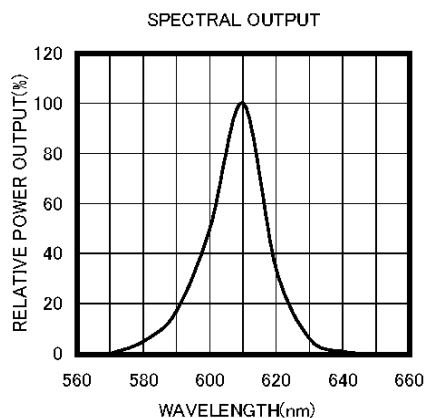
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MTRS6140T Graphs



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