



Dimensions (Unit:mm)

- FEATURES**
- High Reliability
 - Compact(4.0)
- APPLICATIONS**
- Card Reader
 - Bar-code Reader
 - Edge Sensing
 - Money-bill Reader

1. ABSOLUTE MAXIMUM RATINGS (Ta=25)

ITEM	SYMBOL	RATINGS	UNIT
Forward Current (LED)	IF	60	mA
Plus Forward Current (LED)*	IFP	1	A
Reverse Voltage (LED)	VR	5	V
Power Dissipation (LED)	PD	100	mW
Reverse Voltage (PD)	VR	30	V
Power Dissipation (PD)	PD	100	mW
Total Power Dissipation	Ptot	100	mW
Operating Temp.	Topr	-20 TO 80	
Storage Temp.	Tstg	-30 TO 100	

* Tw=10 μS, T=10mS

2. ELECTRICAL & OPTICAL CHARACTERISTICS (Ta=25)

ITEM	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=20mA		1.2	1.5	V
Reverse Current	IR	VR=5V			10	μA
Peak Emission Wave Length	λp	IF=20mA		950		nm
Spectral Line Half Width		IF=20mA		50		nm
Dark Current	ID	VR=10V			10	nA
Output Current	Io	IF=20mA,VR=10V,d=1mm	0.5	0.9		μA
Cross-talk Current	Ix	IF=20mA,VR=10V			1.0%	
Rise Time (10 to 90%)	Tr	VR=10V,IF=20mA,RL=1K		2.0		μS
Fall Time (10 to 90%)	Tf	VR=10V,IF=20mA,RL=1K		2.0		μS

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

