



- 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	30	mA
Plus Forward Current (LED)*	IFP	0.1	A
Reverse Voltage (LED)	VR	5	V
Power Dissipation (LED)	PD	80	mW
Collector-Emitter Voltage (PT)	Vce	20	V
Emitter-Collector Voltage (PT)	Vec	5	V
Collector Current (PT)	Ic	50	mA
Collector Power Dissipation (PT)	PC	75	mW
Total Power Dissipation	Ptot	100	mW
Operating Temp.	Topr	-20 TO 80	
Storage Temp.	Tstg	-30 TO 100	

* Tw=10 μ S, T=10mS

2. ELECTRICAL & OPTICAL CHARACTERISTICS (Ta=25)

ITEM	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=20mA		2.4	2.8	V
Reverse Current	IR	VR=5V			10	μ A
Peak Emission Wave Length	λ	IF=20mA		574		nm
Spectral Line Half Width		IF=20mA		11		nm
Dark Current (Iceo)	ID	Vce=10V			100	nA
Output Current	Io	IF=20mA, Vce=10V, d=1mm	50	150		μ A
Cross-talk Current	Ix	IF=20mA, Vce=10V			1.0%	
Rise Time (10 to 90%)	Tr	Vce=5V, Io=0.1mA, RL=1K		20		μ S
Fall Time (10 to 90%)	Tf	Vce=5V, Io=0.1mA, RL=1K		30		μ S

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

