



- 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 |
| 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=4mA | | 1.1 | 1.4 | V |
| Reverse Current | IR | VR=5V | | | 10 | μ A |
| Peak Emission Wave Length | λ | IF=4mA | | 950 | | nm |
| Spectral Line Half Width | | IF=4mA | | 50 | | nm |
| Dark Current (Iceo) | ID | Vce=10V | | | 100 | nA |
| Output Current | Io | IF=4mA, Vce=10V, d=1mm | 30 | 100 | | μ A |
| Cross-talk Current | Ix | IF=4mA, 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).

