

Photointerrupter

Model No: LBT-136

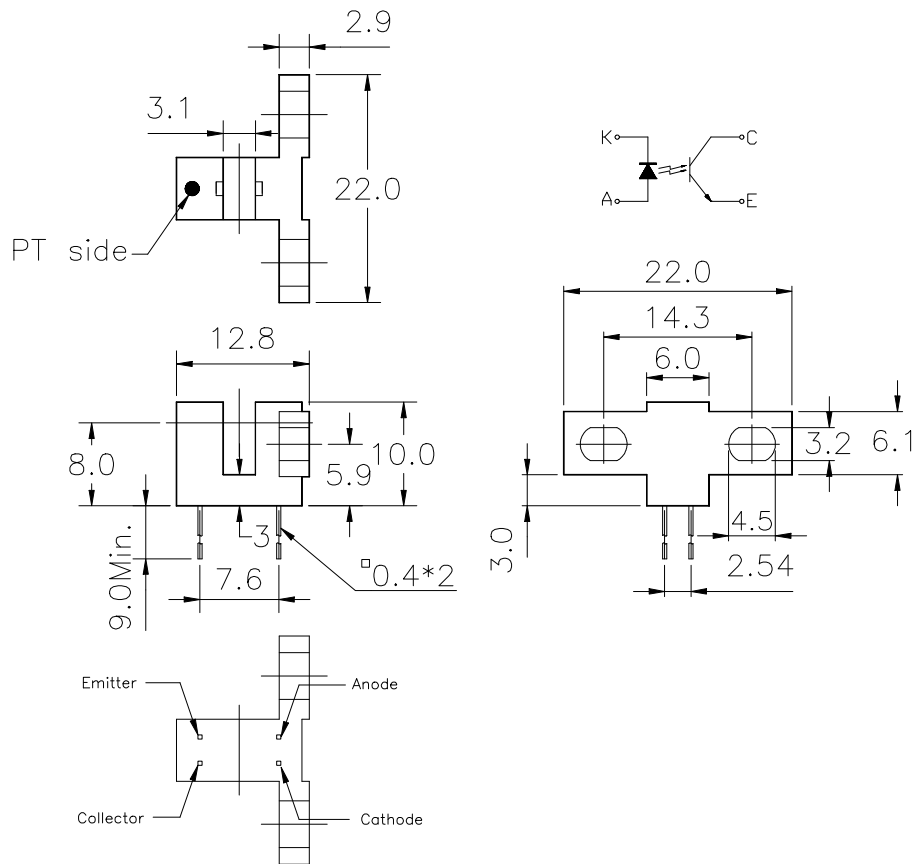
Features

- High sensing accuracy (Slit width: 0.5mm)
- Both-side mounting type

Applications

- Copiers, printers, facsimiles
- Optoelectronic switches

Outline Dimensions



NOTE:
1. All dimensions are in millimeter.
2. Tolerance is ± 0.25 .

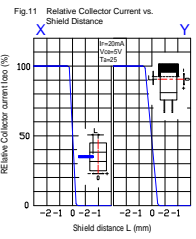
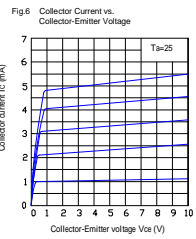
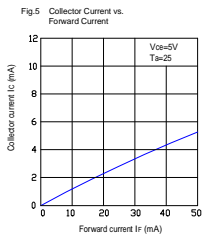
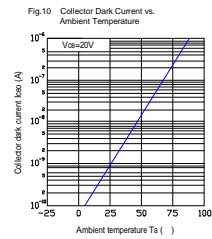
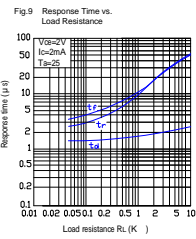
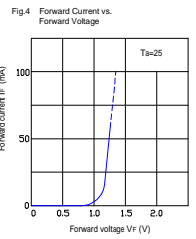
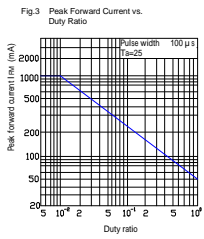
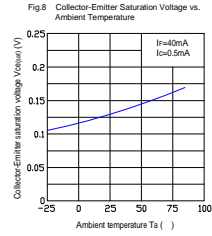
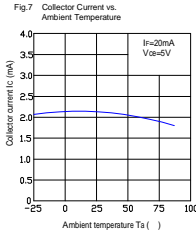
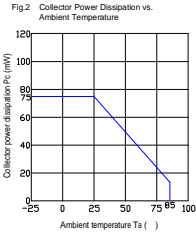
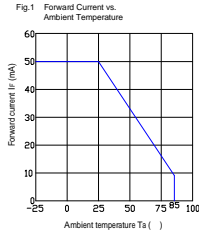
Absolute Maximum Ratings (Ambient Temperature: 25 °C)

| Item | | Symbol | Rating | Units | Note |
|-----------------------|-----------------------------|--------|-------------|-------|-----------------|
| Input | Forward current | IF | 50 | mA | |
| | Reverse voltage | VR | 5 | V | |
| | Power dissipation | PD | 75 | mW | |
| Output | Collector-emitter voltage | Vceo | 30 | V | |
| | Emitter-collector voltage | Veco | 5 | V | |
| | Collector power dissipation | PC | 80 | mW | |
| Storage Temperature | | Tstg | -40 to +100 | | |
| Operating Temperature | | Top | -25 to +85 | | |
| Soldering Temperature | | Tsol | 260 | | 10 seconds max. |

Electrical Specifications (Ambient Temperature: 25 °C)

| Item | | Symbol | Min. | Typ. | Max. | Units | Conditions |
|-------------|--------------------------------------|----------|------|------|------|-------|------------------------|
| Input | Forward voltage | VF | | 1.2 | 1.4 | V | IF=20mA |
| | Peak forward voltage | VFM | | 3 | 4 | V | IFM=0.5A |
| | Reverse current | IR | | | 10 | μA | VR=5V |
| | Peak wavelength | λp | | | 940 | nm | |
| Output | Collector dark current | Iceo | | 5 | 100 | nA | Vce=24V, IF=0 |
| | Collector-emitter breakdown voltage | BVceo | 30 | | | V | Ice=50μA |
| | Emitter-collector breakdown voltage | BVeco | 4.5 | | | V | Iec=50μA |
| Combination | Collector current | Ic | 0.5 | | | mA | Vce=5V, IF=20mA |
| | Collector-emitter saturation voltage | Vce(sat) | | | 0.4 | V | IF=20mA, Ic=1mA |
| | Response time | Tr/TF | 10 | | | μs | IF=5mA, Vcc=5V, RL=100 |

Reference Data



Test Circuit for Response Time

