

Photointerrupter

Model No: LBT-133WP

Features

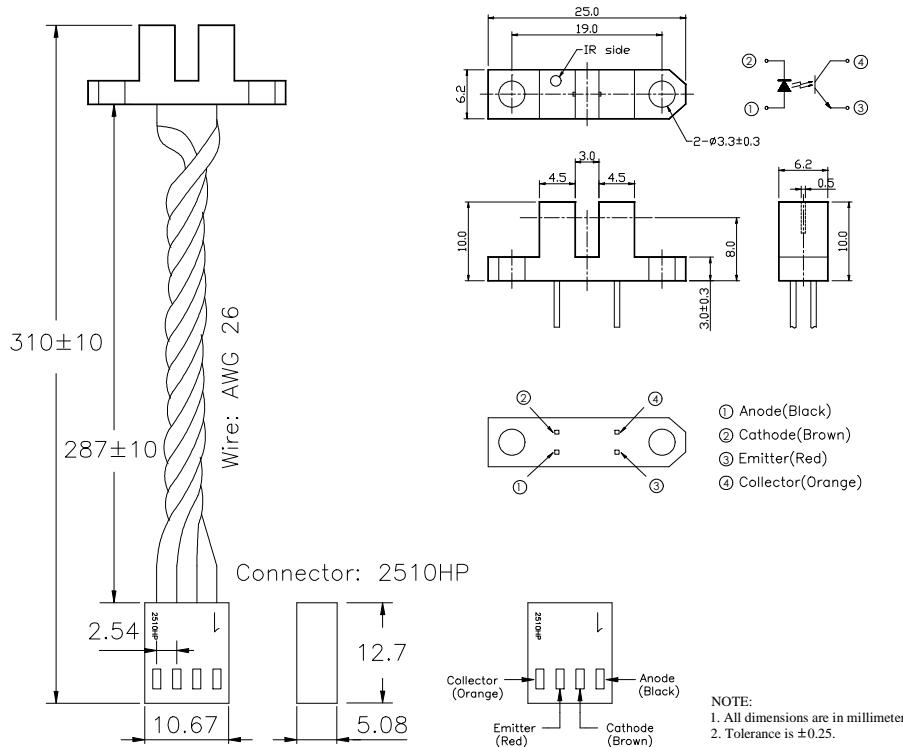
- High sensing accuracy (Slit width: 0.5mm)
- PWB direct mounting type package

Applications

- Copiers, printers, facsimiles
- Optoelectronic switches

Outline Dimensions

(Unit: mm)



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Absolute Maximum Ratings (Ambient Temperature: 25°C)

| Item | Symbol | Rating | Units | Note |
|-----------------------|-----------------------------|------------------|-------|----------------|
| Input | Forward current | I _F | 50 | mA |
| | Reverse voltage | V _R | 5 | V |
| | Peak forward current | I _{FP} | 1 | A |
| | Power dissipation | P _d | 75 | mW |
| Output | Collector current | I _c | 50 | mA |
| | Collector-Emitter voltage | V _{ceo} | 30 | V |
| | Emitter-Collector voltage | V _{eco} | 5 | V |
| | Collector power dissipation | P _c | 100 | mW |
| Storage Temperature | T _{tsg} | -40 to +85 | °C | |
| Operating Temperature | T _{op} | -25 to +85 | °C | |
| Soldering Temperature | T _{sol} | 260 | °C | 5 seconds max. |

Electrical Specifications (Ambient Temperature: 25°C)

| Item | Symbol | MIN. | TYP. | MAX. | Units | Conditions |
|-----------------|------------------------|----------------------|------|------|-------|--|
| Input | Forward voltage | V _F | 1.0 | 1.15 | 1.3 | V IF=20mA |
| | Reverse current | I _R | | | 10 | µA VR=5V |
| | Peak wavelength | λ _p | | 940 | nm | |
| | View angle | 2θ 1/2 | | 35 | Deg. | IF=20mA |
| Output | Dark current | I _{ceo} | | 100 | nA | V _{ce} =20V |
| | C-E saturation voltage | V _{ce(sat)} | | 0.4 | V | I _c =2mA, I _B =0.1mA |
| Light current | I _{c(on)} | 0.5 | | | mA | V _{ce} =5V IF=20mA |
| Leakage current | I _{Leak} | | | 1 | µA | |
| Speed | Rise Time | tr | | 30 | | V _{ce} =5V I _c =1mA RL=1KΩ |
| | Fall Time | tf | | 25 | µs | |

Photointerrupter Reference Data

