



SILICON PHOTO TRANSISTOR

APPLICATIONS :

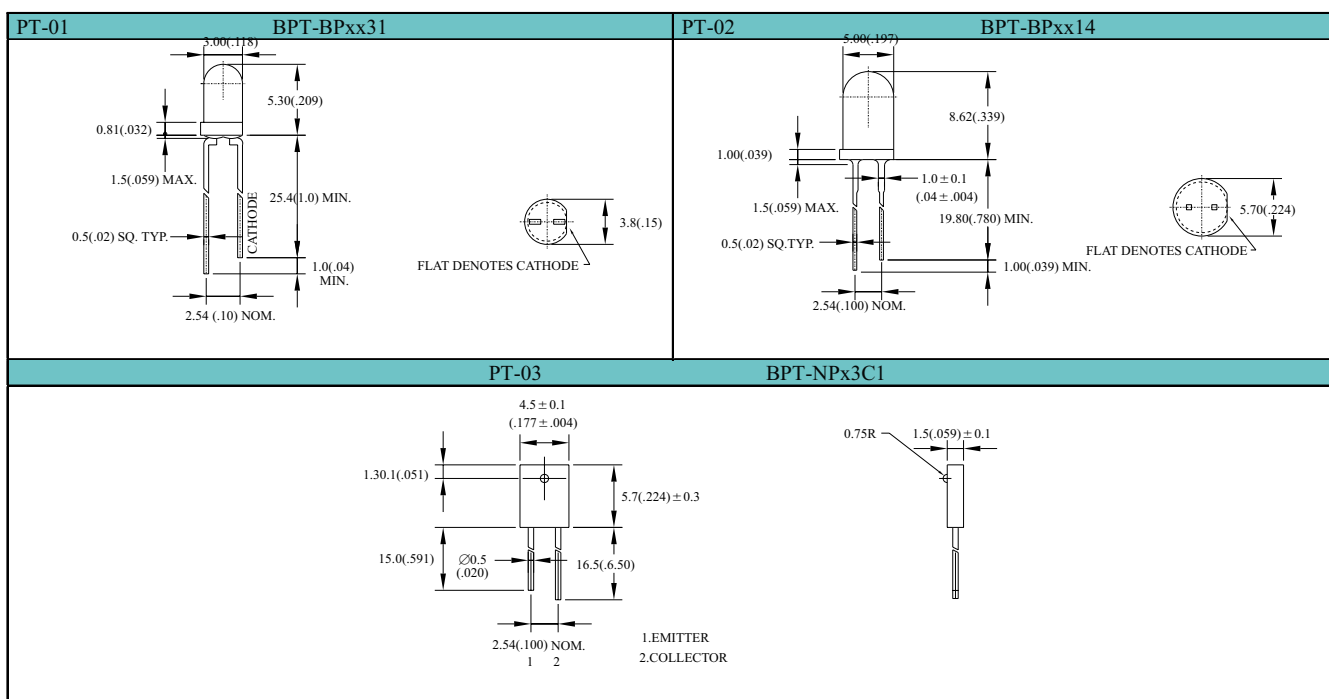
- Remote Control , • Photo Detector, • Smoke Detector, • Automatic Control System, • Optical Encoder

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

- Collector-to-Emitter Saturation Voltage Vce(SAT) (Ib=100uA) /Ic=2mA0.4V(Max.)
- Emitter-to-collector Breakdown Voltage(BVece) -5V(Max.)
- Operating Temperature Range(-45°C~+85°C)
- Storage Temperature Range(-45°C~+100°C)
- Lead Soldering Temperature (1/16inch from case).....(5 sec 250°C)

ELECTRICAL AND RADIANT CHARACTERISTICS (Ta=25°C)

| Package | Part No. | Absolute Maximum Rating | | Lens Appearance | Collector Light Current (IC(ON)) | | | | Collector Dark Current (Icco) | | Rise Time & Fall Time | | Peak Wave Length λ P (nm) | Viewing Angle 2θ 1/2 (deg) | Drawing No. |
|-------------------------------------|------------|-------------------------|---------|-----------------|----------------------------------|-----------|---------|------------|-------------------------------|---------|-----------------------|---------|---------------------------|----------------------------|-------------|
| | | Vceo (V) | Pd (mW) | | Min. (mA) | Typ. (mA) | Vce (V) | H (mW/cm²) | Max. (nA) | Vce (V) | Tr (us) | Tf (us) | | | |
| T-1 Standard 1.0" Lead 3 φ | BPT-BP0331 | 30 | 100 | Water Clear | 0.5 | 2.0 | 5.0 | 1.0 | 100 | 10 | 10 | 15 | 940 | 30 | PT-01 |
| | BPT-BP0931 | | | Black | 0.5 | 2.0 | 5.0 | | 100 | 10 | 10 | 15 | | | |
| | BPT-BP1331 | | | Water Clear | 1.0 | 3.0 | 5.0 | | 100 | 10 | 10 | 15 | | | |
| | BPT-BP1931 | | | Black | 1.0 | 3.0 | 5.0 | | 100 | 10 | 10 | 15 | | | |
| | BPT-BP2331 | | | Water Clear | 1.5 | 4.0 | 5.0 | | 100 | 10 | 10 | 15 | | | |
| | BPT-BP2931 | | | Black | 1.5 | 4.0 | 5.0 | | 100 | 10 | 10 | 15 | | | |
| T-13/4 Standard 1.0" Lead 5 φ | BPT-BP0314 | 30 | 100 | Water Clear | 0.8 | 3.0 | 5.0 | 1.0 | 100 | 10 | 10 | 15 | 940 | 35 | PT-02 |
| | BPT-BP0914 | | | Black | 0.8 | 3.0 | 5.0 | | 100 | 10 | 10 | 15 | | | |
| | BPT-BP1314 | | | Water Clear | 1.2 | 4.0 | 5.0 | | 100 | 10 | 10 | 15 | | | |
| | BPT-BP1914 | | | Black | 1.2 | 4.0 | 5.0 | | 100 | 10 | 10 | 15 | | | |
| | BPT-BP2314 | | | Water Clear | 1.7 | 5.0 | 5.0 | | 100 | 10 | 10 | 15 | | | |
| | BPT-BP2914 | | | Black | 1.7 | 5.0 | 5.0 | | 100 | 10 | 10 | 15 | | | |
| Side Viewing 1.5*4.5*5.7 | BPT-NP03C1 | 30 | 100 | Water Clear | 0.5 | 1.5 | 5.0 | 1.0 | 100 | 10 | 10 | 15 | 940 | 50 | PT-03 |
| | BPT-NP13C1 | | | Water Clear | 0.5 | 2.5 | 5.0 | | 100 | 10 | 10 | 15 | | | |
| | BPT-NP23C1 | | | Water Clear | 0.5 | 3.5 | 5.0 | | 100 | 10 | 10 | 15 | | | |



Notes : 1.All Dimensions are in millimeters (inches).
2.Tolerance is ±0.25mm (.010").