

■ Photointerrupters

☆ Under Development

| Output | Type | Absolute maximum ratings | | Standard Characteristics | | | | | | | Package | Reference Catalog |
|---------------------|--------------------|--------------------------|----------------------|-----------------------------|-----------------|---------------------|---------------------|---------------------|----------------------------|-------------------------------------|---------|-------------------|
| | | I _F (mA) | V _{CEO} (V) | Detection groove width (mm) | Slit width (mm) | I _C (mA) | V _{CE} (V) | I _F (mA) | I _{CEO} Max. (μA) | t _r -t _f (μs) | | |
| Phototransistor | RPI-38 | 50 | 30 | 3 | 0.7 | 7 | 5 | 20 | 0.5 | 10 | Fig. 16 | No. 3122 |
| | New PRI-241 | 50 | 30 | 2.0 | 0.4 | 3 | 5 | 20 | 0.5 | 10 | Fig. 17 | |
| | New PRI-242 | 50 | 30 | 2.0 | 0.4 | 0.5 Min. | 5 | 20 | 0.5 | 10 | Fig. 18 | — |
| | RPI-261 | 50 | 30 | 2.5 | 0.5 | 1 Min. | 5 | 20 | 0.5 | 10 | Fig. 19 | No. 3029 |
| | PRI-351 | 50 | 30 | 3.0 | 0.4 | 1 | 5 | 20 | 0.5 | 10 | Fig. 20 | |
| | RPI-371 | 50 | 30 | 3.4 | 0.5 | 1 Min. | 10 | 20 | 0.5 | 10 | Fig. 21 | |
| | RPI-373R | 50 | 30 | 3.2 | 0.5 | 4 | 5 | 20 | 0.5 | 10 | Fig. 22 | |
| | RPI-374 | 50 | 30 | 3 | 0.5 | 1 Min. | 5 | 20 | 0.5 | 10 | Fig. 23 | |
| | ☆ RPI-441 | 50 | 30 | 4.0 | 0.5 | 1 | 5 | 20 | 0.5 | 10 | Fig. 24 | |
| | RPI-572 | 50 | 30 | 5 | 0.5 | 0.8 Min. | 5 | 20 | 0.5 | 10 | Fig. 25 | |
| | RPI-581 | 50 | 30 | 5 | 0.5 | 0.5 Min. | 5 | 20 | 0.5 | 10 | Fig. 26 | |
| | PLI-13M | 50 | 30 | 1.2 | 0.4 | 0.7 Min. | 5 | 20 | 0.5 | 10 | Fig. 27 | No. 3122 |
| | PLI-13MA | 50 | 30 | 1.2 | 0.4 | 0.07 Min. | 0.6 | 1.3 | 0.5 | 10 | | |
| | PLI-13MB | 50 | 30 | 1.2 | 0.4 | 0.6 Min. | 5 | 9 | 0.5 | 10 | | |
| | PLI-13MC | 50 | 30 | 1.2 | 0.4 | 0.065 Min. | 5 | 1.5 | 0.5 | 10 | | |
| | PLI-13MD | 50 | 30 | 1.2 | 0.4 | 2 Min. | 4.5 | 20 | 0.5 | 10 | | |
| | PLI-13ME | 50 | 30 | 1.2 | 0.4 | 0.7 Min. | 5 | 20 | 0.5 | 10 | Fig. 28 | |
| | PLI-14M | 50 | 30 | 1.2 | 0.4 | 0.03 Min. | 5 | 1.5 | 0.5 | 10 | | |
| | PLI-14MC | 50 | 30 | 1.2 | 0.4 | 0.065 Min. | 5 | 1.5 | 0.5 | 10 | | |
| | PLI-14MG | 50 | 30 | 1.2 | 0.4 | 0.14 Min. | 5 | 1.5 | 0.5 | 10 | | |
| PLI-14MF | 50 | 30 | 1.2 | 0.4 | 0.03 Min. | 5 | 1.5 | 0.5 | 10 | | | |
| New SIU-5000 | 50 | 30 | With Actuator | | | 0.5 Min. | 5 | 20 | 0.5 | 10 | Fig. 29 | |

| Output | Type | Absolute maximum rating | | | Standard Characteristics | | | | | Output mode | Package | Reference Catalog |
|---------|---------------------|-------------------------|---------------------|---------------------|-----------------------------|-----------------|--------------------|---------------------|-----------------------|-------------|---------|-------------------|
| | | I _F (mA) | V _{CC} (V) | I _O (mA) | Detection groove width (mm) | Slit width (mm) | V _F (V) | V _{OL} (V) | I _{FLH} (mA) | | | |
| Digital | RPI-811M2 | — | 9 | 20 | 8 | 0.8 | — | 0.4 Max. | — | Dark ON | Fig. 30 | — |
| | New RPI-1132 | 50 | 7 | 10 | 1.0 | 0.3 | 1.1 | 0.35 Max. | 1.5 | Dark OFF | Fig. 31 | — |
| | RPI-1370 | 50 | 17 | 20 | 3.2 | 0.5 | 1.1 | 0.14 | 2.0 | Dark ON | Fig. 32 | No. 3122 |
| | RPI-1373 | 50 | 17 | 20 | 3.2 | 0.5 | 1.1 | 0.14 | 2.0 | Dark ON | Fig. 33 | |
| | RPI-1374 | 50 | 17 | 20 | 3 | 0.5 | 1.1 | 0.14 | 1.5 | Dark ON | Fig. 34 | |
| | RPI-1380 | 50 | 17 | 20 | 3 | 0.7 | 1.1 | 0.14 | 1.5 | Dark ON | Fig. 35 | |
| | RPI-1572 | 50 | 17 | 20 | 5 | 0.5 | 1.1 | 0.14 | 3 | Dark ON | Fig. 36 | |
| | RPI-1581 | 50 | 17 | 20 | 5 | 0.5 | 1.1 | 0.14 | 3 | Dark ON | Fig. 37 | |
| | New RPI-512 | — | 7 | 20 | 5 | 0.5 | 1.1 | 0.14 | — | Dark ON | Fig. 38 | |

■ Reflective Photosensors (Photo Reflector)

| Output | Type | Absolute maximum rating | | Standard Characteristics | | | | | | | Package | Reference Catalog |
|-----------------|---------------------|-------------------------|----------------------|--------------------------|---------------------|---------------------|---------------------|----------------------------|-------------------------------------|--------------------------|---------|-------------------|
| | | I _F (mA) | V _{CEO} (V) | Detection distance (mm) | I _C (μA) | V _{CE} (V) | I _F (mA) | I _{CEO} Max. (μA) | t _r -t _f (μs) | V _{CE(sat)} (V) | | |
| Phototransistor | RPR-359F | 50 | 30 | 3.5 | 500 | 5 | 20 | 0.5 | 10 | 0.1 | Fig. 39 | No. 3122 |
| | RPR-360FSC | 50 | 30 | 3.5 | 550 | 5 | 20 | 0.5 | 10 | 0.1 | Fig. 40 | |
| | PR-361FS | 50 | 30 | 3.5 | 550 | 5 | 20 | 0.5 | 10 | 0.1 | Fig. 41 | |
| | PR-362FS | 50 | 30 | 3.5 | 550 | 5 | 20 | 0.5 | 10 | 0.1 | Fig. 42 | |
| | New RPR-363A | 50 | 30 | 5.0 | 100 Min. | 5 | 20 | 0.5 | 10 | 0.1 | Fig. 43 | |

Dimensions (Unit: mm), Equivalent Integrated Circuits

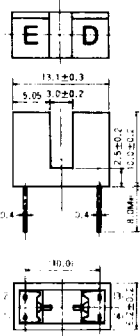


Fig. 16

RPI-241

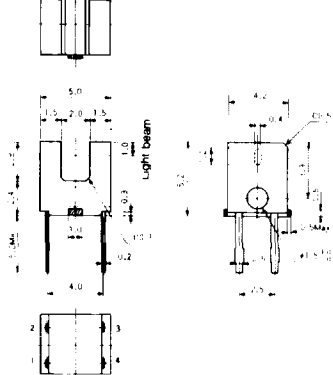


Fig. 17

RPI-242

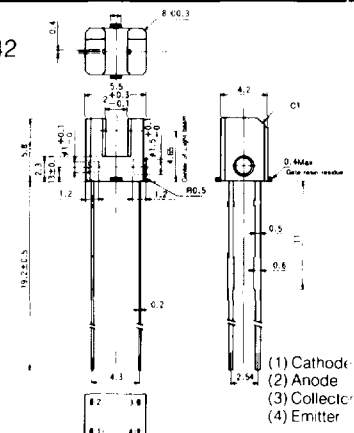


Fig. 18

- (1) Anode
- (2) Cathode
- (3) Collector
- (4) Emitter

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