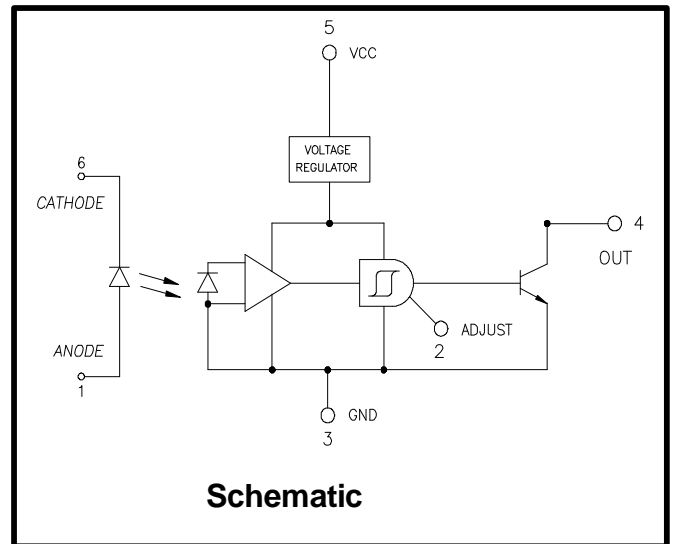
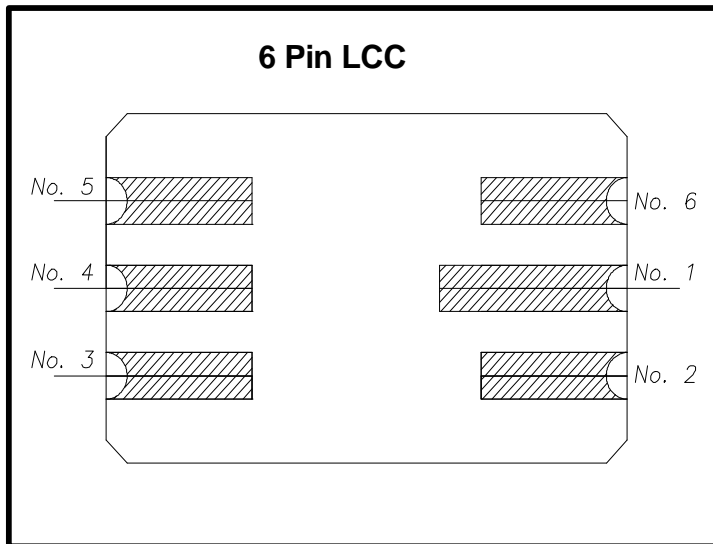


MXP6505

- Ambient Temperature Range -40°C to + 85°C
- VCC Range 4.5V to 18V
- Supply Current 3.5mA max @ 5V
- Output sinks 16mA @ 400mV max
- NPN Onen-Collector Output

**Opto Coupler
 with
 Logic Output
 And Adjustable
 Optial Threshold**

| | |
|-----------------------------|----------------------|
| | -0.5V to +20V |
| Voltage at OUT (Output OFF) | -0.5V to + Vcc +0.5V |
| | |



Electrical Characteristics @ 25°C

Input Diode

| Symbol | Parameter | Min. | Typ. | Max. | Units | Test Conditions |
|--------|----------------------|------|------|------|-------|-----------------|
| V_R | Reverse Voltage | 2.0 | | | V | $I_R = 10\mu A$ |
| V_F | Forward Voltage | | | 1.95 | V | $I_F = 100mA$ |
| P_o | Radiant Power Output | 4.0 | 7.5 | | mW | $I_F = 100mA$ |

Electrical Characteristics @ 25°C (Con't)

Output Detector

| Parameter | Symbol | Min. | Typ. | Max. | Units | Test Conditions | Notes |
|---|----------------|------|------|------|-------|------------------------|-------|
| Vcc Voltage Range | VccR | 4.5 | 5 | 18 | V | | |
| Supply Current @ 5V (output low) | Icc5L | 1.1 | 1.6 | 2.3 | mA | LED ON | |
| Supply Current @ 5V (output high) | Icc5H | 1.8 | 2.5 | 3.5 | mA | LED OFF | |
| Supply Current @ 18V (output low) | Icc18L | 1.5 | 2.2 | 3.1 | mA | LED ON | |
| Supply Current @ 18V (output high) | Icc18H | 22 | 3.1 | 4.4 | mA | LED OFF | |
| Low-level Output Voltage @ 16mA (Vcc = 4.5V) | VOL 1 | - | 290 | 400 | mV | LED ON | |
| Low-level Output Voltage @ 16mA (Vcc = 18V) | VOL 2 | - | 285 | 400 | mV | LED ON | |
| High-level Output Current @ 18V (Vcc = 4.5V) | I0H1 | - | 0 | 10 | μA | LED OFF | |
| Output Fall Time (Vcc = 5V) | T _f | - | 16 | 30 | nS | RL = 10K CL = 15 pF | |
| Output Rise Time (Vcc = 5V) | T _r | - | 440 | 600 | nS | RL = 10K CL = 15 pF | |