

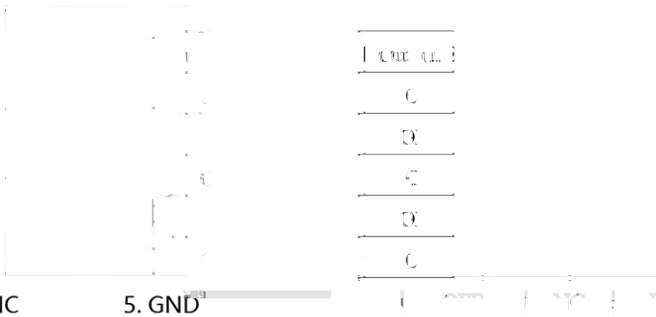
1. Features
  - (1) Low  $V_{CC}$  supply voltage
  - (2) Low power consumption
  - (3) High speed: 15MBd(typical)
  - (4)  $V_{CEM}$ =1000V, and the lowest common mode inhibition (CMR) is 10 kV/μs.
  - (5) -40 °C ~ +110 °C temperature of AC and DC performance.
  - (6) Safety approval
    - UL approved (No.8323844)
    - VDE approved (No.40729738)
    - CQC approved (No.CQC11.00012175)
  - (7) In compliance with RoHS, REACH standards
  - (8) MSL Class I



OR-6N137 is made up of an efficient LED and a high-speed optical detector. This design provides good ac and dc isolation between the input and output ends of the photoelectric coupler. The output characteristic curve shows excellent conversion operation characteristics, consistent stability, and good readability. The photoelectric coupler operating temperature range is -40 °C ~ +110 °C.

FUNCTIONAL BLOCK

2. A/D, D/A converted signal signal isolation
  3. eliminate noise from the ground loop
  4. switching power supply
  5. antenna
  - 6.
  7. interface of microprocessor system, computer and peripheral equipment.
8. Functional Diagram



- NC            5. GND
- Anode       6. Output
- Cathode    7.  $V_E$ (Enable)
- NC           8.  $V_{CC}$

9) Each of the pins capacitance should be connected between pins and the

## 5. Absolute Maximum Ratings ( $T_a=25^{\circ}\text{C}$ )

	Parameter	Symbol	Rated Value	Unit
Input	Average Forward Input Current	$I_F$	20	mA
	Reverse Input Voltage	$V_R$	5	V
	Power Dissipation	$P_r$	40	mW
	Enable Input Voltage	$V_E$	VCC+0.5	V
	Enable Input current	$I_E$	5	mA
Output	Output Collector Current	$I_O$	50	mA
	Output Collector Voltage	$V_O$	7	V
	Output Collector Power Dissipation	$P_O$	85	mW

