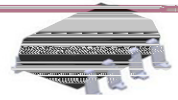




1. Features

- 1) 3.3V ~ 5V supply voltage
- 2) Low power consumption
- 3) High speed: 15MBd(typical)
- 4) $V_{CE} = 1000V$, and the lowest common mode inhibition $0.1 \mu A/kV/us$
- 5) $-40^{\circ}C \sim +110^{\circ}C$ temperature of AC and DC performance.



6) RoHS approval

- UL approved (No.E323844)
- VDE approved (No.40029733)
- CQC approved (No:CCC19001251151)

7) In compliance with RoHS, REACH standards

6N137 is made up of an efficient ALIAS non-emitting mode!

and light-emitting diodes as detector between the input and output. The characteristic of the photodetector is a collector open circuit schottky clamp transistor. The total mode transient immunity should reach 10 kV/ps at 0.3 v. The photodetector can work in a wide temperature range, range $-40^{\circ}C \sim +110^{\circ}C$.

- 2. A/D, D/A converted digital signal isolation
- 3. eliminate noise from the ground loop

7. interface of microprocessor system, computer and peripheral equipment



0.1 capacitor F bypass capacitance needs to be connected between VCC and GND

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	$V_{CC}+0.5$	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

