

JAECS CO.,LTD.

NO.26, Lane 83, Hwa- Chen Road, Hsin Chuan City, Taipei Hsien, Taiwan, R.O.C
E-MAIL:

Service dept: jaecs@ms4.hinet.net <http://www.jaecs.com.tw>

Engineer dept: londer.rd@msa.hinet.net

TEL: 886-2-29961965 FAX: 886-2-22796602

IRDC358 SPECIFICATION

IRDC358 is an infrared remote control decoding IC. It decodes RC-5 infrared Format and output to parallel port(D0~D5) and serial out. Its application includes TV,VCR,CD,Multimedia,VCD,DVD player and etc.

Features:

1. Decodeing format: RC-5
2. Valid customer code: 0F,07
3. Operating Freq: 4MHZ
4. Operating Voltage: 4.5V~5.5V
5. Max decoding key: 64 Keys
6. Parallel output port: D0~D5 6bit
7. Serial output: 9600 Baud rate
8. Package: 18 pin sop 300mil

Pin description:

The pin assignment is plotted in Fig1. Next is the description for each pin.

REIN: Input ; it is infrared signal input data pin.

ACK1: Output; it is normal state is "HI". When a valid infrared data is decoded, It pulls down 76 ms form HI to LOW to be a trigger signal.

P_ON: Output pin; its normal state is "HI". When a power key (20H) on the remote control is decoded, from HI to LOW to be a trigger signal.

P_SW: It is deigned to connect a power switch button. Its function is equivalent to the power key of remote control.

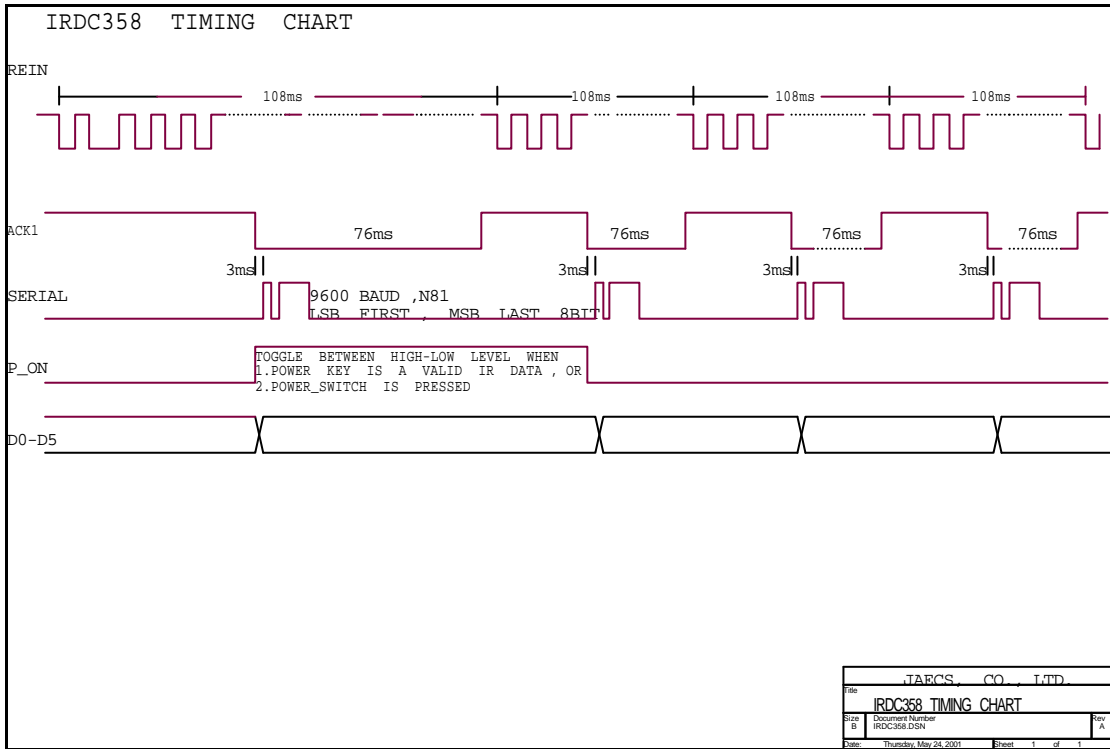
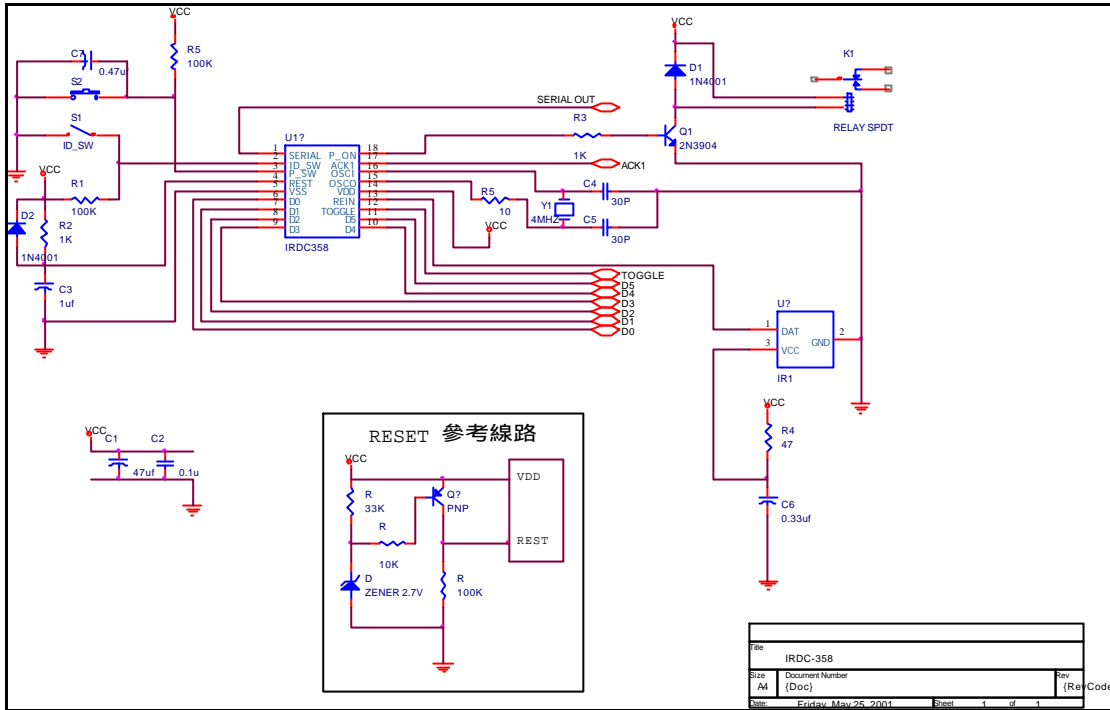
ID_SW: If the pin pulled high, the custom code is "0F" and if the pin is in low state, the coustom code is "07".

D0~D5: Parallel output pin; the D0 pin is LSB.

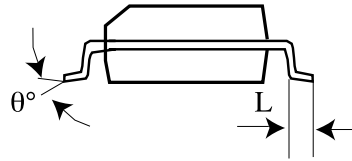
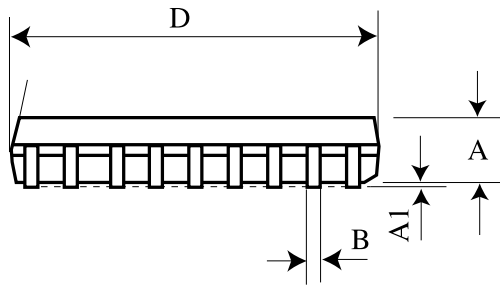
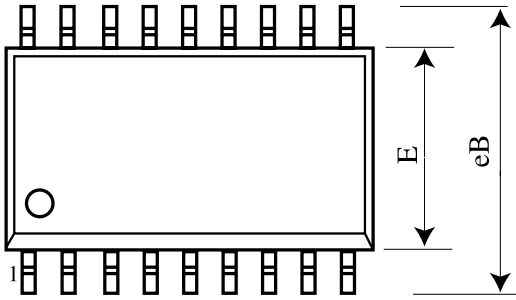
SERIAL: It transmite the valid infrared data via the following protocol:9600 Baud rate; non-parity, 8 bit data and 1 stop bit; LSB first. Its data is a complement of parallel port data.

TOGGLE: When a new key on the remote control is decoded,TOGGLE bit change state ,1=output "HI",0=output "LOW".

If there is any question or suggestion, please do not hesitate to inform us by phone or fax or e-mail. If you want to apply IRDC358 to a specific application, we are very glad and able to modify the IRDC358 to meet your demands.



18-PIN : 18-Lead Plastic Small Outline (SOP)-300mil



Sym.	Dimension in mils			Dimension in mm		
	Min.	Nom.	Max.	Min.	Nom.	Max.
A	81	91	100	2.057	2.311	2.540
A1	4	8	12	0.102	0.203	0.305
B	12	16	20	0.305	0.406	0.508
D	447	455	463	11.354	11.557	11.760
E	291	295	299	7.391	7.493	7.595
eB	394	407	419	10.008	10.338	10.643
L	16	33	50	0.406	0.838	1.270
θ°	0°	4°	8°	0°	4°	8°