Photointerrupter(Transmissive) T136H(L)

IT136H(IT136L)

● Features

• Single beam, build in amplifier and schumitt trigger.

• Open collector output.

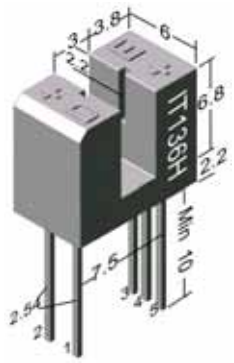
• Resolution: slit width=0.5mm.

• IT136L is low level output type when the gap is not shielded.

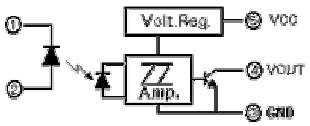
• IT136H is high level output type when the gap is not shielded.

● Dimensions Unit:mm

Unless othewise specified, the tolerances are ±0.2mm



Internal Circuit



●Absolute Maximum Ratings(Ta=25℃)

Parameter		Symbol	Rating	Unit
Input	Forward Current	I_F	50	mA
	Reverse Voltage	V_R	5	V
	Power Dissipation	P	75	mW
Output	Power Supply	Vcc	17	V
	Low Level Current Output	I_{OL}	30	mA
	Collector Power Dissipation	P_C	200	mW
*Operating Temperature		Topr	-20~65	℃
Storage Temperature		Tstg	-30~75	℃
** Soldering Temperature		Tsol	260	℃

* The special requirement could be met according to customer's request.

**Soldering time: 5s max. Soldering position: at least 1.5mm from the base of the package.

●Electro-Optical Characteristics(Ta=25℃)

Parameter		Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V_F	I_F=10mA	-	1.2	1.4	V
	Reverse Current	I_R	V_R=5V	-	-	10	μA
Output	Operating Voltage	Vcc		4.5	-	16.5	V
	Output Type		NPN transistor open collector output				
	Low Level Output	V_{OL}	I_{OL}=16mA ,V_{CC}=5V (IT136L,I_F=10 mA) (IT136H,I_F=0)	-	-	0.4	V
	High Level Output	V_{OH}	V_{CC}=5V , V_{OC}≤25V, R_L=47K(IT136L,I_F=0) (IT136H,I_F=10 mA)	0.9 V_{OC}	-	-	V
	Current Consumption	I_{CC}	V_{CC}=5V	-	3	16	mA
Rise Time		Tr	R_L=4.7K	-	8	-	μS
Fall Time		Tf		-	0.03	-	μS