P3010

HIGH RELIABILITY PHOTOCOUPLER

● Features

1. Current transfer ratio

   CTR: MIN.60 at I_F=±1mA Vce=5V

2. High isolation voltage between input and output (Viso: 5000Vrms).

3. Compact dual-in-line package.

4. AC input.

● Applications

1. Programmable Controller Applications for Low Input Photocouplers and High Vceo Photocouplers.

2. Telephone sets, telephone exchangers.

3. System appliances. ● Limit Switches ● Sensors ● Thermostats ● Transdusers etc.

4. Signal transmission between circuits of different potentials and impedances.

65 Shark River Road, Neptune, New Jersey 07753-7423
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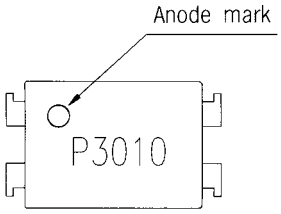
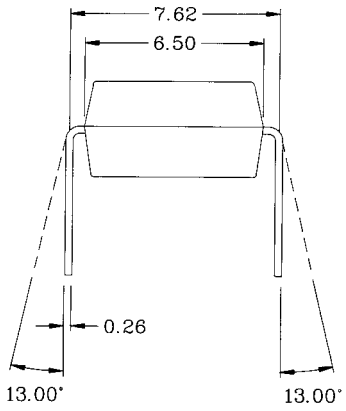
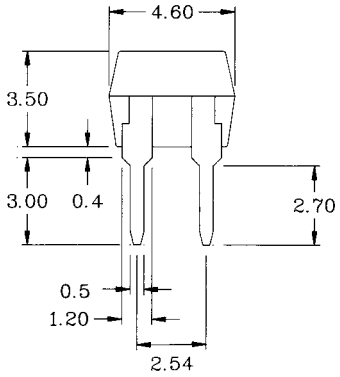
1. OUTSIDE DIMENSION : UNIT (mm)

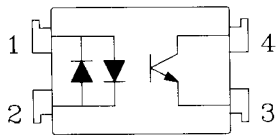






TOLERANCE : ±0.1mm

2. SCHEMATIC : TOP VIEW



1. Anode, Cathode
2. Anode, Cathode
3. Emitter
4. Collector

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● Absolute Maximum Ratings (Ta=25℃)

Parameter		Symbol	Rating	Unit
Input	Forward current	I_F	±50	mA
	Peak forward current	I_{FM}	±1	A
	Power dissipation	P_D	70	mW
Output	Collector-emitter voltage	V_{CEO}	60	V
	Emitter-collector voltage	V_{ECO}	6	V
	Collector current	I_C	50	mA
	[illegible]	[illegible]	150	[illegible]

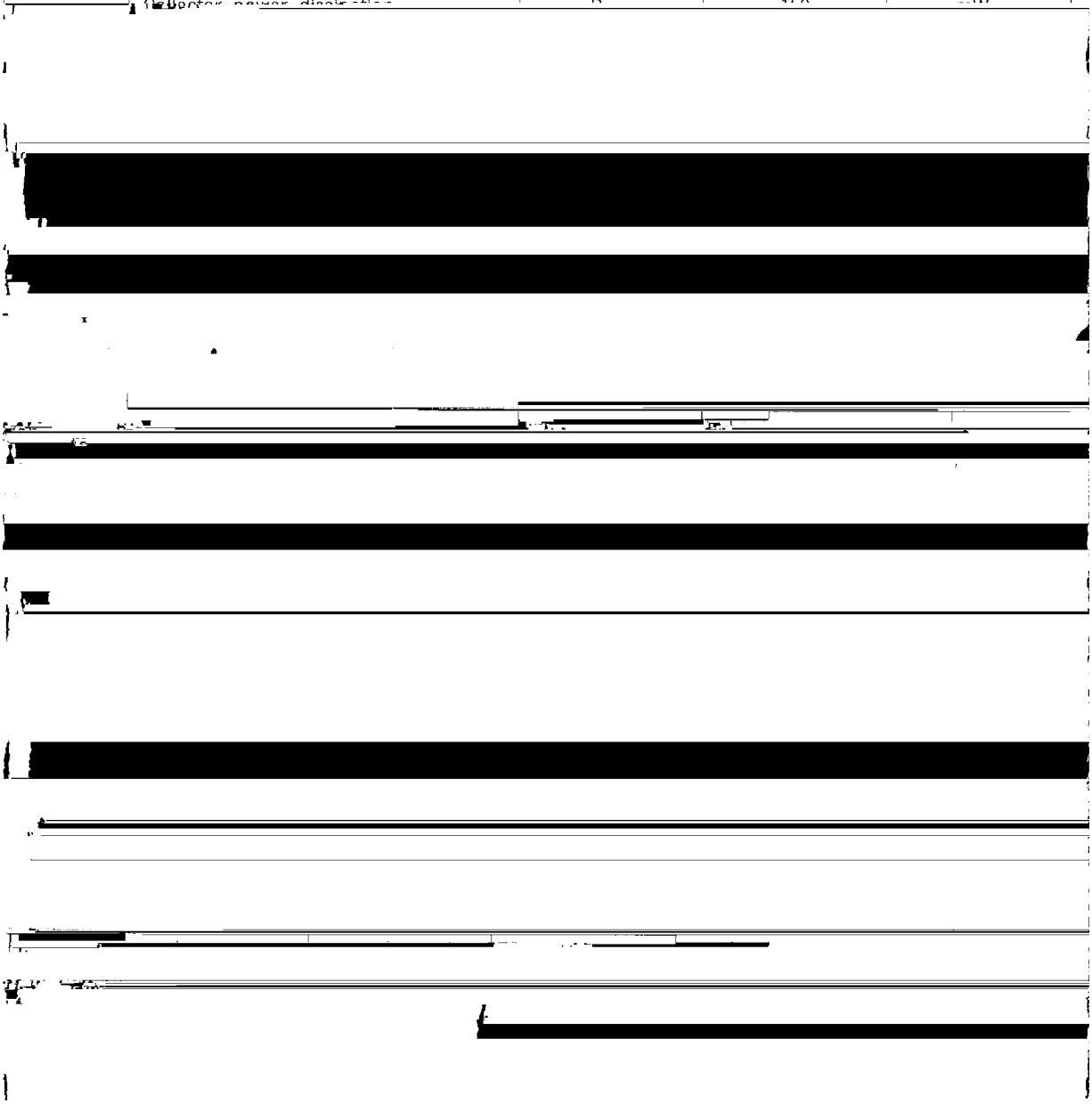

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Fig. 2 Collector Power Dissipation vs. Ambient Temperature

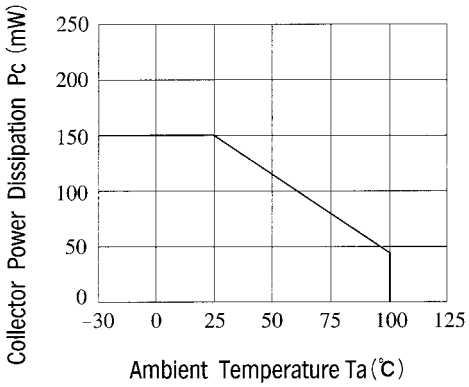

Fig. 3 Collector Dark Current vs. Ambient Temperature

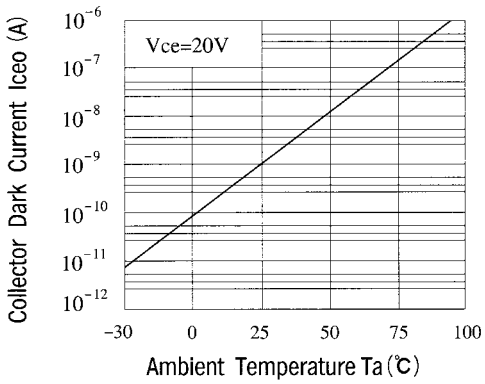

Fig. 4 Forward Current vs. Ambient Temperature

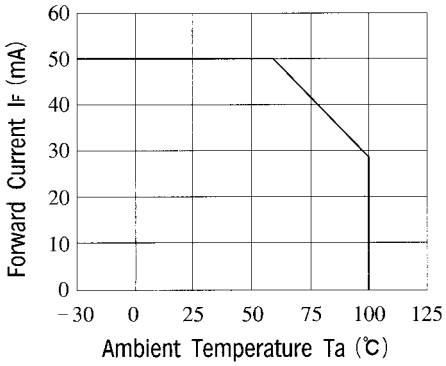

Fig. 5 Forward Current vs. Forward Voltage

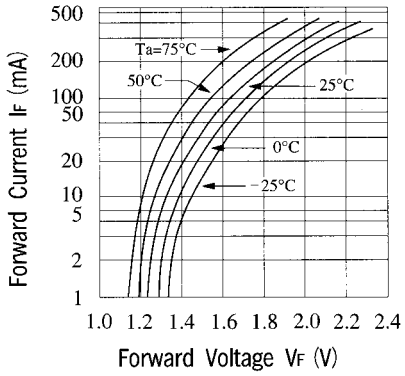

Fig. 6 Collector Current vs. Collector-emitter Voltage

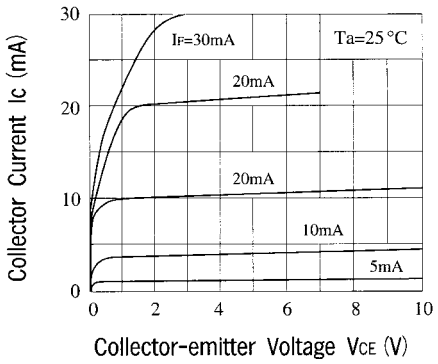

Fig. 7 Relative Current Transfer Ratio vs. Ambient Temperature

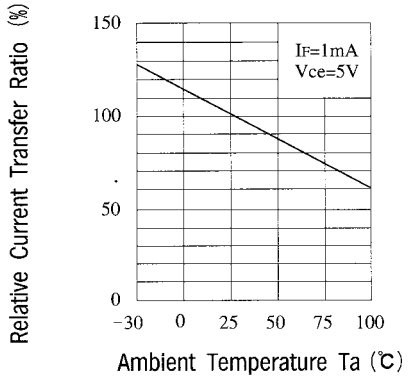

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Fig. 8 Collector-emitter Saturation Voltage vs. Ambient Temperature

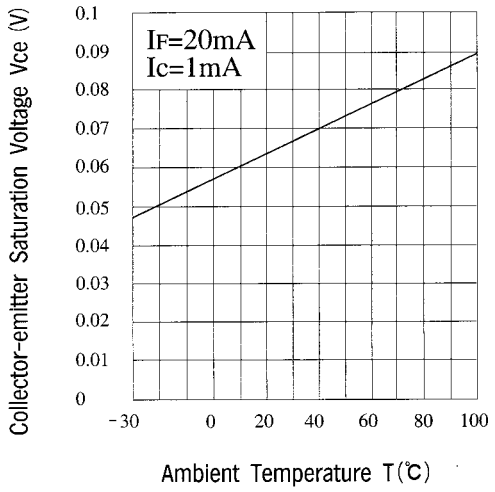


Fig. 9 Collector-emitter Saturation Voltage vs. Forward Current

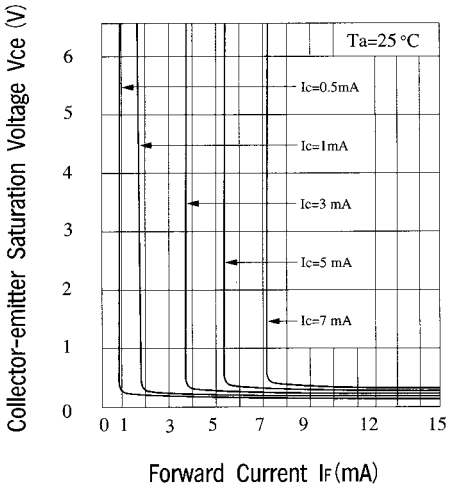


Fig. 10 Response Time vs. Load Resistance

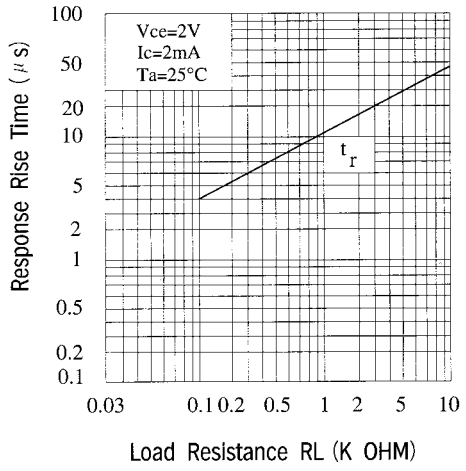
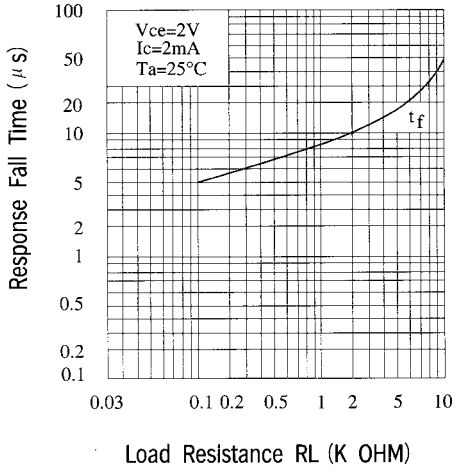


Fig. 11 Response Time vs. Load Resistance



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