

PHOTO INTERRUPTER PRODUCTS SPECIFICATION

HINT-3120

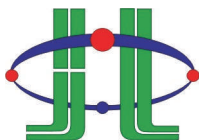


Drawn by	Checked by	Approved by



DATE:2009/6/18

REV:E

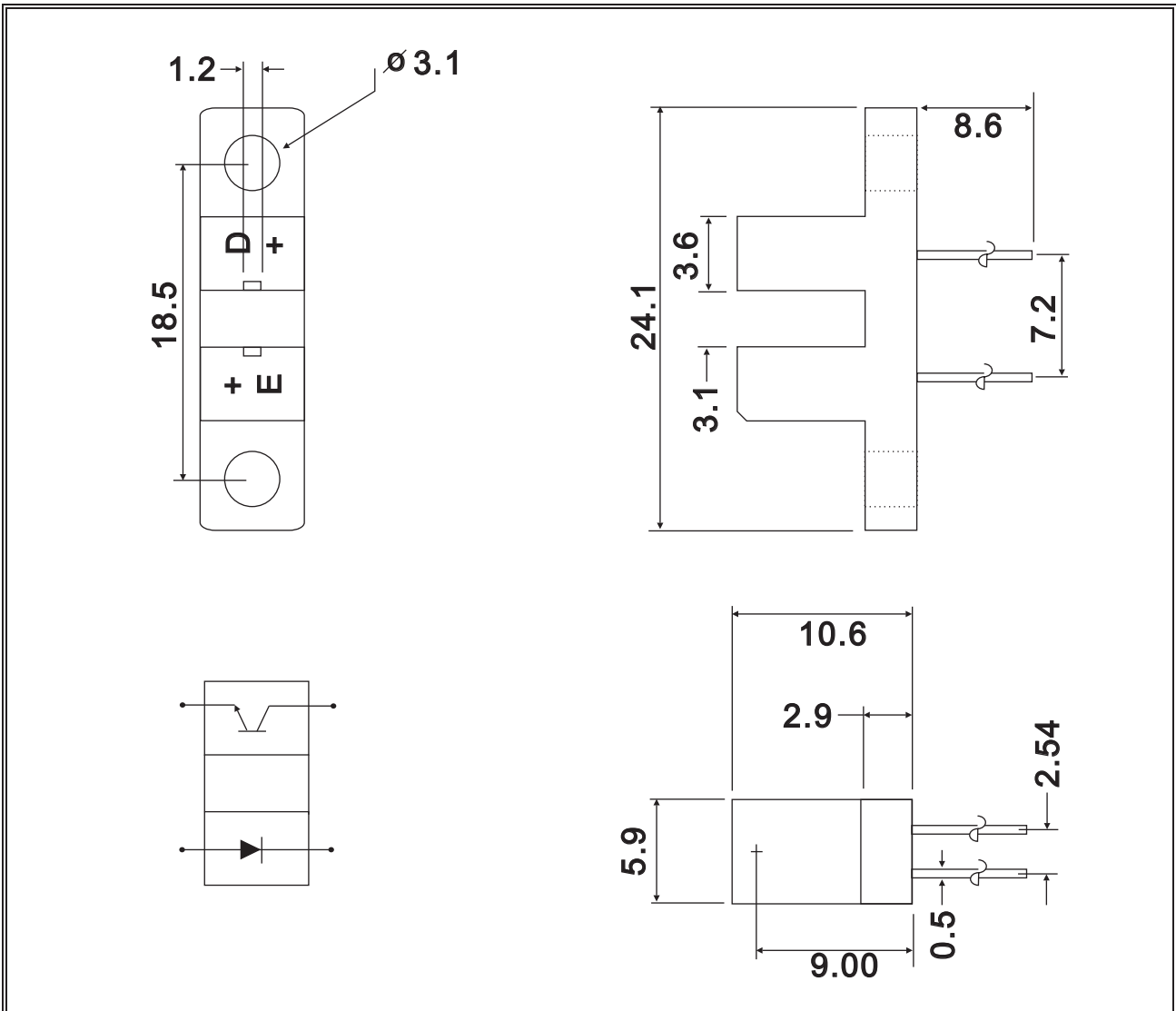


HUEY JANN ELECTRONICS INDUSTRY CO., LTD.

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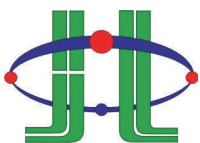
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PACKAGE DIMENSIONS:



NOTE:

- 1.All dimensions are in millimeter.
- 2.Lead spacing in measured where the lead emerge from the package.
- 3.prodruded resin under flange is 1.5mm max.
- 4.specifications are subject to change without notice.
- 5.Tolerance is 0.3mm unless otherwise noted.



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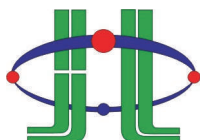
ABSOLUTE MAXIMUM RATINGS

TA=25°C

PARAMETER		SYMBOL	MAX. RATING	UNIT
Input	Continuous Forward Current	IF	25	mA
	Peak Forward Current *1	IFP	0.5	A
	Reverse Voltage	VR	5	V
	Power Dissipation	Pd	100	mW
Output	Collector-Emitter Voltage	VCEO	30	V
	Emitter-Collector Voltage	VECO	5	V
	Collector Current	Ic	30	mA
	Power Dissipation	Pd	100	mW
Operating Temperature		Topr	-25 ~ +70	°C
Storage Temperature		Tstg	-25 ~ +85	°C
Dip Soldering Temperature (3mm from case Bottom 260 °C for 5 seconds)				

*1.Duty Ratio = 1/10,Pulse Width = 0.1ms.

*Iron soldering in 350°C within 5 seconds will not cause damage to the dice. But be aware of the high temperature will not only make the epoxy soften but also cause the lead moving and the gold wire broken and even open. So before returning to the normal temperature PLEASE AVOID any serious pressure on the top of epoxy and lead.



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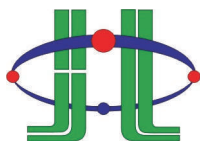
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ELECTRIC-OPTICAL CHARACTERISTICS

TA=25°C

PARAMTER		SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Input	Forward Voltage	VF	IF=20mA		1.20	1.60	V
	Reverse Current	IR	VR=5V			10	uA
Output	Dark Current	ID	VCE=5V			20	uA
	C-E Saturation Voltage	VCE(sat)	Ic=0.5mA IF=20mA			1.0	V
Light Current		IL	Vce=5V,IF=20mA	2.0			mA
Rise Time		Tr	Vce=5V,IFP=20mA RL=1000Ω		15		μ sec
Fall Time		Tf			15		μ sec



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TYPICAL ELECTRICAL OPTICAL CHARACTERISTICS CURVES

Fig.1
Power Dissipation vs. Ambient Temperature

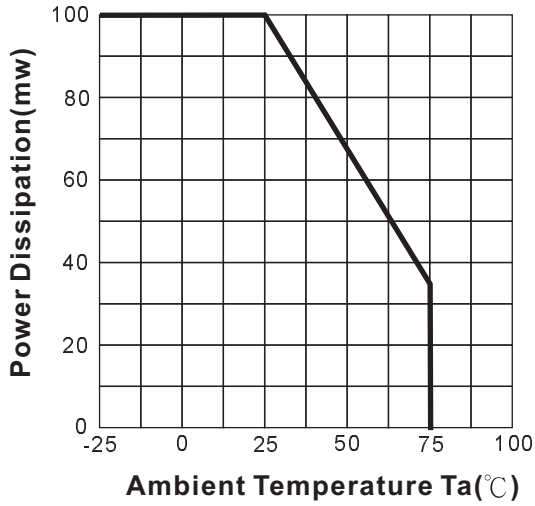


Fig.2
Forward Current vs. Forward Voltage

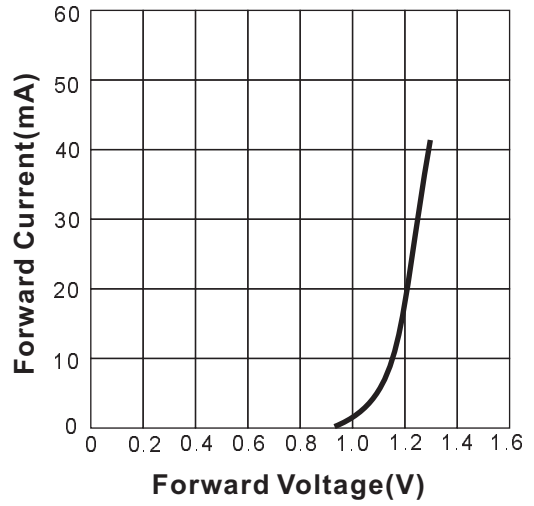


Fig.3
Response Time vs. Load Resistance

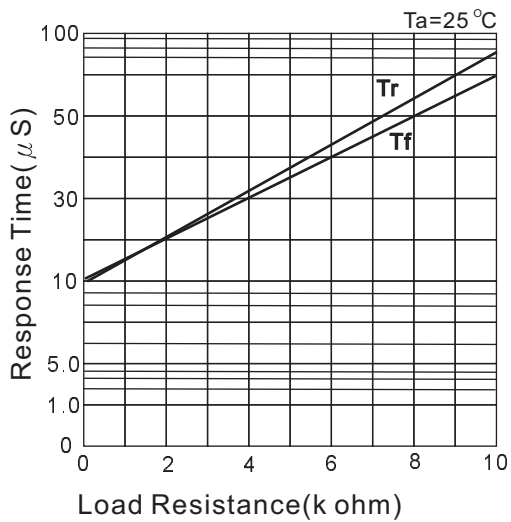
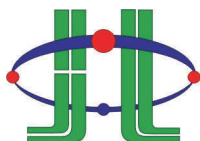
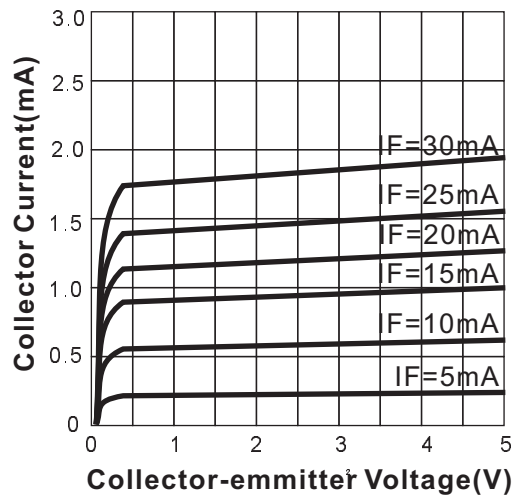


Fig.4
Collector Current vs. Collector-emitter Voltage



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TYPICAL ELECTRICAL OPTICAL CHARACTERISTICS CURVES

Fig.5
Collector Current vs. Ambient Temperature

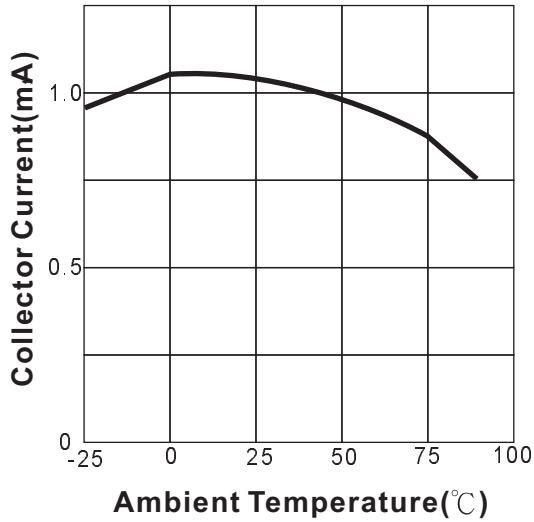
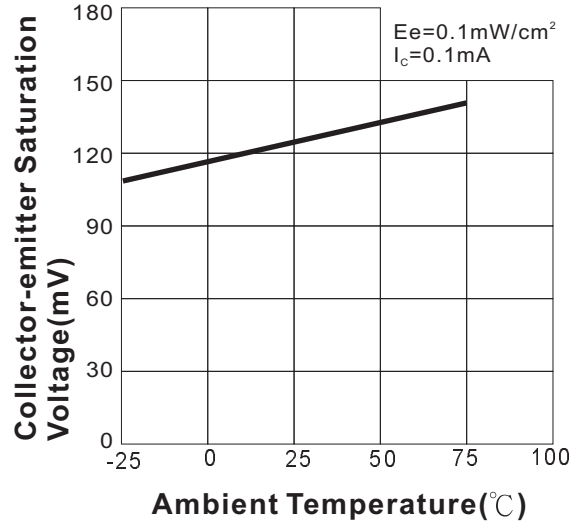
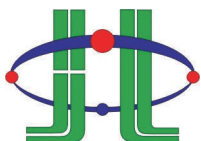
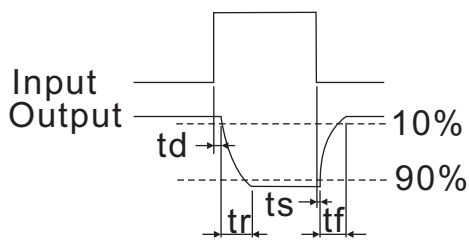
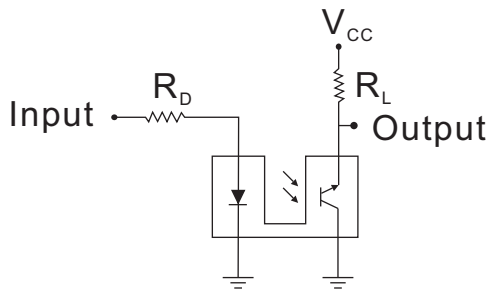


Fig.6
Collector-emitter Saturation Voltage vs. Ambient Temperature



TEST CIRCUIT FOR RESPONSE TIME



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