



New  Rev


# APPROVAL SHEET

CUSTOMER : \_\_\_\_\_

DEVICE NAME : PHOTO TRANSISTOR  
\_\_\_\_\_

MODEL NO. : SPT- 5934-H3  
\_\_\_\_\_

ISSUED DATE : JAN. 13. 2013  
\_\_\_\_\_

	ISSUE	REVIEW	REVIEW	APPR'D
ISSUED DEPT.		蒋宏华	邱丽红	



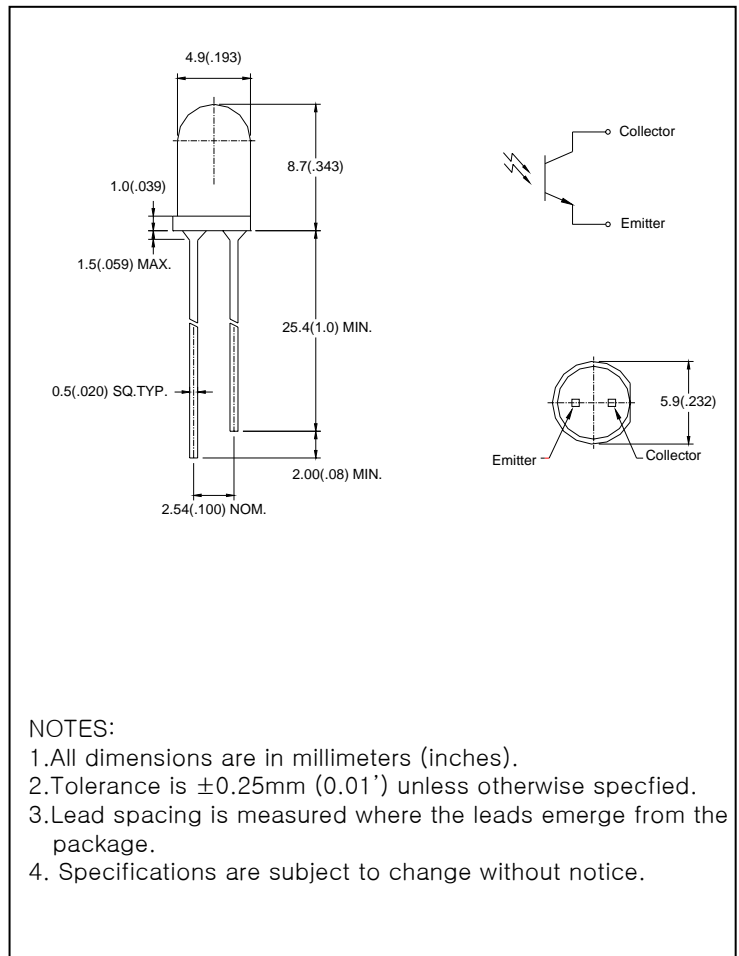
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**● Features:**

1. Wide range of collector current.
2. High sensitivity.
3. Low cost plastic package.
4. Lens Appearance: Black.
5. This product doesn't contain restriction substance, comply RoHS standard

**● Applications:**

The SPT-5934-H3 is a NPN silicon phototransistor mounted in a lensed, special dark plastic package. The lensing effect of the package allows an acceptance half view angle of 40° that is measured from the optical axis to the half power point.

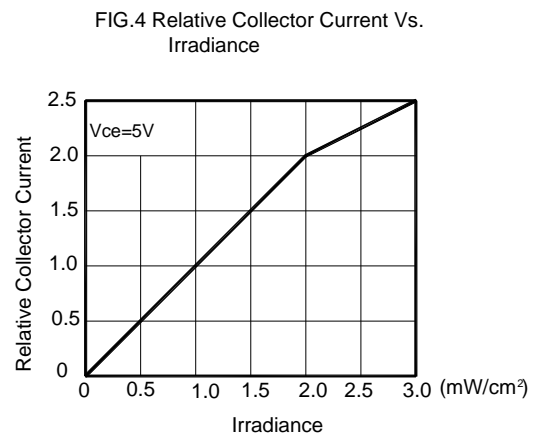
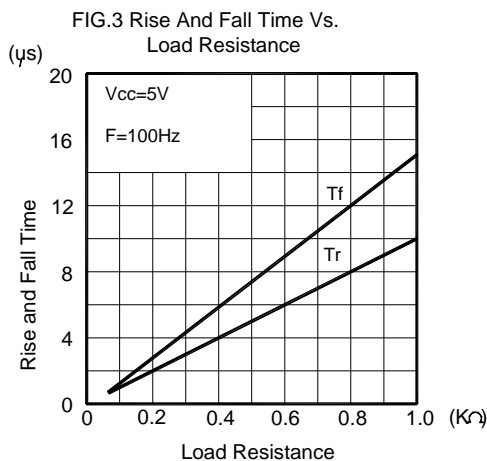
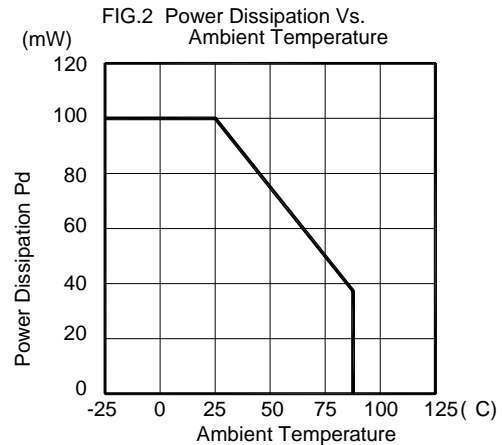
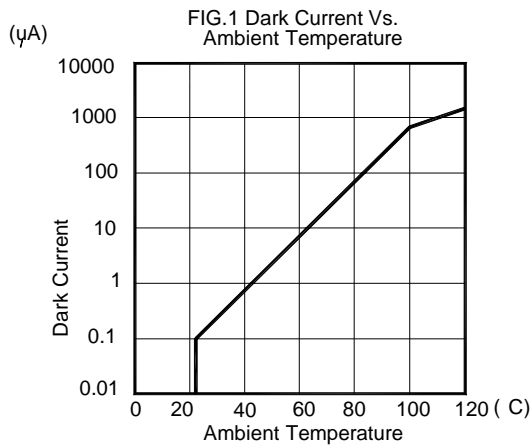
**● Package dimensions:**

**● Absolute Maximum Ratings(Ta=25°C)**

Parameter	Maximum Rating	Unit
Power Dissipation	100	mW
Collector- Emitter Voltage	30	V
Emitter- Collector Voltage	5	V
Operating Temperature	-45°C ~+85°C	
Storage Temperature Range	-45°C ~+100°C	
Lead Soldering Temperature	260°C for 5 seconds	

\*1Condition for IFP is pulse of 1/10 duty and 0.1msec width.

**● Electrical and optical characteristics(Ta=25°C)**

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Collector- Emitter Breakdown Voltage	$V_{(BR)CE0}$	30	-	-	V	$I_C=0.1mA$ $E_e=0mW/cm^2$
Emitter-Collector Breakdown Voltage	$V_{(BR)EC0}$	5	-	-	V	$I_R=0.1mA$ $E_e=0 mW/cm^2$
Collector- Emitter Saturation Voltage	$V_{CE(SAT)}$	-	-	0.5	V	$I_C=0.1 mA$ $E_e=1.0mW/cm^2$
Rise Time	$T_r$	-	25	-	$\mu S$	$V_{CC}=5V$ $R_L=1K\Omega$ $I_C=1mA$
Fall Time	$T_f$	-	25	-	$\mu S$	$V_{CC}=5V$ $R_L=1K\Omega$ $I_C=1mA$
Collector Dark Current	$I_{CEO}$	-	-	100	nA	$V_{CE}=10V$ $E_e=0 mW/cm^2$
On State Collector Current	$I_{C(ON)}$	-	4.7	-	mA	$V_{CE}=5V$ $E_e=1.0mW/cm^2$

**● Typical electro-optical characteristics curves**


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