



New Rev

APPROVAL SHEET

CUSTOMER : _____

DEVICE NAME : PHOTO TRANSISTOR _____

MODEL NO. : SPT- 49342-H8 _____

ISSUED DATE : SPE. 8. 2012 _____

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

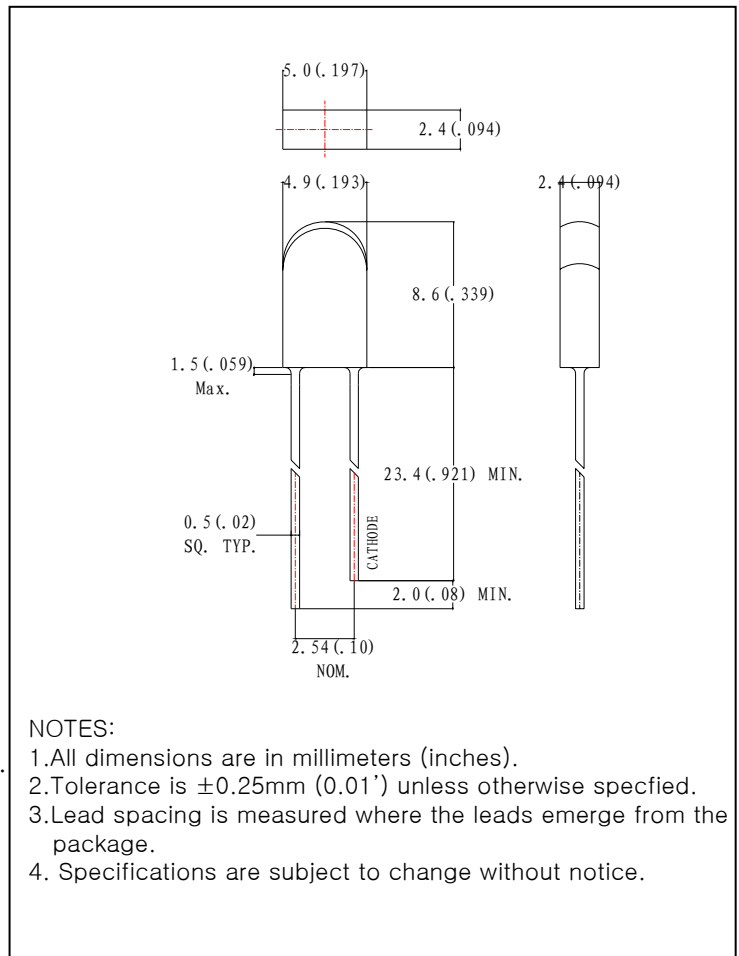
	TEL : +86-755-88878308 FAX : +86-755-88828216 Email : sek@seksemi.com http://www.seksemi.com
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● Features:

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-49342-H8 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 20° that is measured from the optical axis to the half power point .

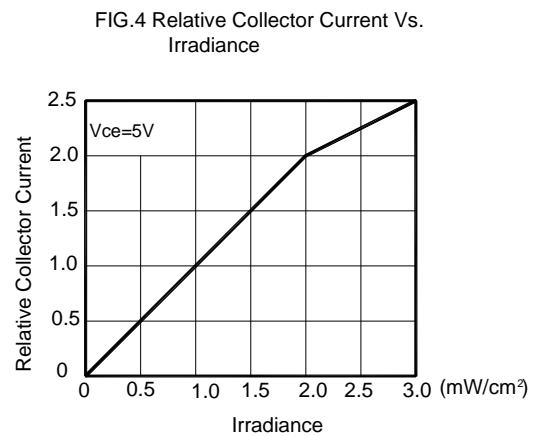
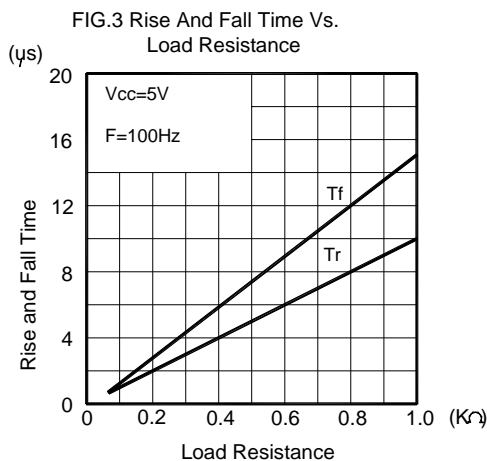
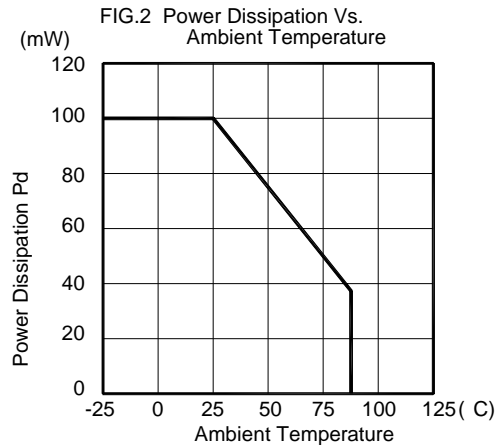
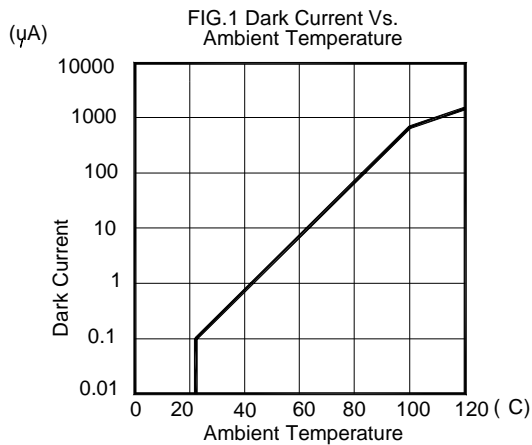
● Package dimensions:

● 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	UNIT S	TEST CONDITIONS
Collector- Emitter Breakdown Voltage	$V_{(BR)CEO}$	30	-	-	V	$I_C=0.1mA$ $E_e=0mW/cm^2$
Emitter-Collector Breakdown Voltage	$V_{(BR)ECO}$	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	-	15	-	μS	$V_{CC}=5V$ $R_L=1K\Omega$ $I_C=1mA$
Fall Time	T_f	-	15	-	μS	$V_{CC}=5V$ $R_L=1K\Omega$ $I_C=1mA$
Collector Dark Current	I_{CEO}	-	-	100	nA	$V_{CE}=10V$ $E_e=0 mW/cm^2$
On State Collector Current	$I_{C(ON)}$	-	3.5	-	mA	$V_{CE}=5V$ $E_e=1.0mW/cm^2$

● Typical electro-optical characteristics curves


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