承 认 书

SPECIFICATION FOR APPROVAL

客户名称：
CUSTOMER _____

产品名称： 红外接收管
PARTANME _____

规格料号： HPT-3215C-PB-TRZ
PART NO _____

客户签章			鸿利泰签章		
DESIGNER	CHECKER	APPROVER	DESIGNER	CHECKER	APPROVER
			黄柏嫦	黄凯	马祥利

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Features:

1. Wide range of collector current
2. High photo sensitivity
3. Small junction capacitance
4. Pb free
5. lens color: water clear
6. The product itself will remain within RoHS compliant version

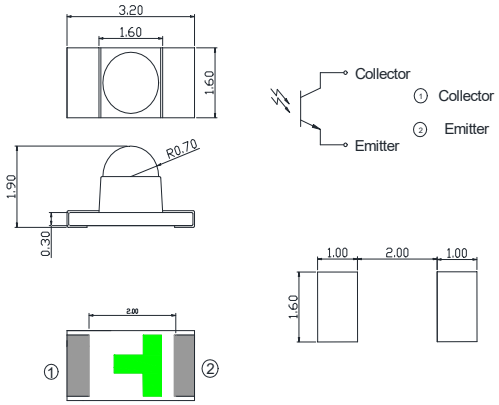
Descriptions

1. The device is a phototransistor in miniature SMD package which is flat top view lens
2. The device is Spectrally matched to visible and infrared emitting diode

Applications:

1. PCB mounted infrared sensor
2. Optoelectronic switch
3. Smoke detector
4. Intelligent water meter
5. Infrared keyboard
6. Infrared applied system

Package Dimensions:



NOTES:
1.All dimensions are in millimeters (inches).
2.Tolerance is ±0.25mm (0.01') unless otherwise specified.
3.Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

Absolute Maximum Ratings(Ta=25℃)

Parameter	Maximum Rating	Unit
Power Dissipation	75	mW
Collector- Emitter Voltage	30	V
Emitter- Collector Voltage	5	V
Operating Temperature	-45℃~+85℃	
Storage Temperature Range	-45℃~+100℃	
Lead Soldering Temperature	260℃ for 5 seconds	

● Optical- Electrical Characteristics (@TA=25℃)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Rang Of Spectral Bandwidth	$\lambda_{0.1}$	400		1100	nm	
Wavelength Of Peak Sensitiv	λ_P	-	940	-		
Collector- Emitter Breakdown Voltage	$V_{(BR)CEO}$	30	-	-	V	IC=100μA Ee=0mW/cm2
Emitter-Collector Breakdown Voltage	$V_{(BR)ECO}$	5	-	-	V	IE=100μA Ee=0mW/cm2
Collector- Emitter Saturation Voltage	$V_{CE(SAT)}$	-	-	0.5	V	IC=2mA IB=100μA
Rise Time	T_r	-	15	-	μS	Vcc=5V R_L=1KΩ I_C=1mA
Fall Time	T_f	-	15	-	μS	Vcc=5V R_L=1KΩ I_C=1mA
Collector Dark Current	I_{CEO}	-	-	100	nA	V_{CE}=20V Ee=0mW/cm2
On State Collector Current	$I_{C(ON)}$	-	5	-	mA	V_{CE}=5V E_e=1.0mW/cm^2

● Typical Optical-Electrical Characteristic Curves

FIG.1 Dark Current Vs. Ambient Temperature

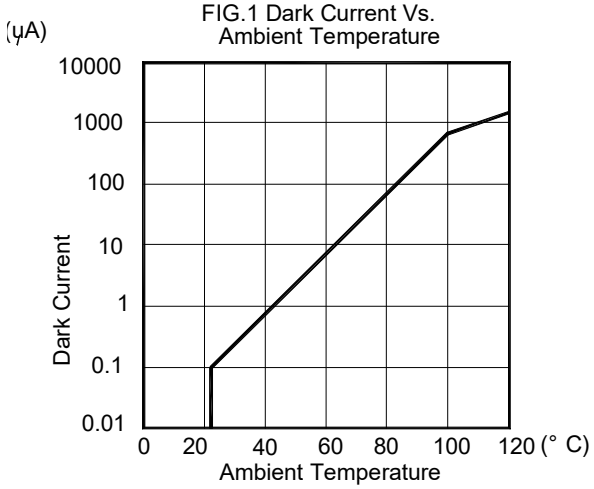


FIG.2 Power Dissipation Vs. Ambient Temperature

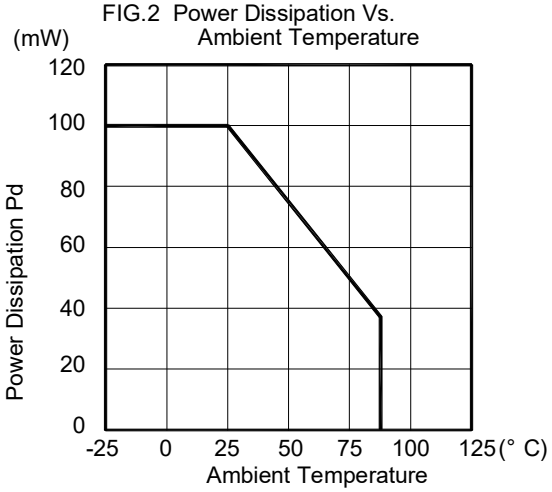


FIG.3 Rise And Fall Time Vs. Load Resistance

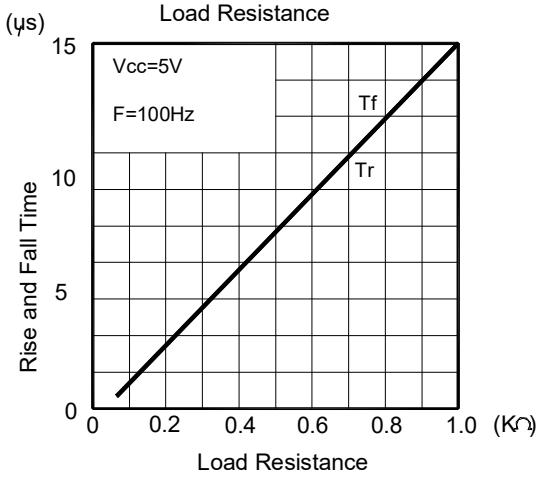
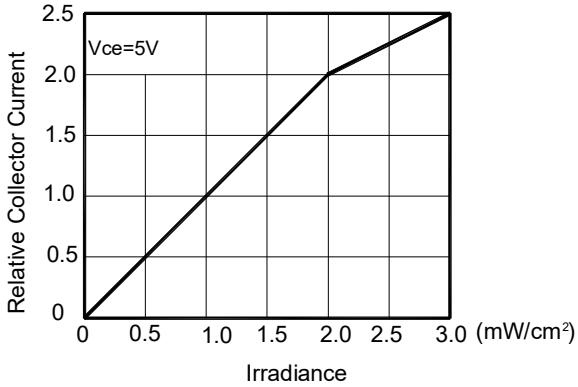


FIG.4 Relative Collector Current Vs. Irradiance

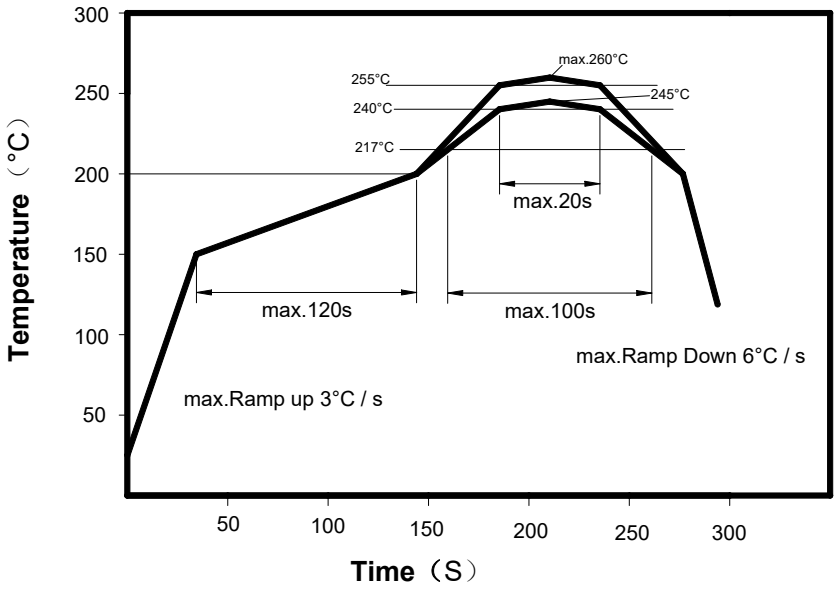


● Soldering Condition:

Preheating : 120℃,Within120℃~180℃sec.

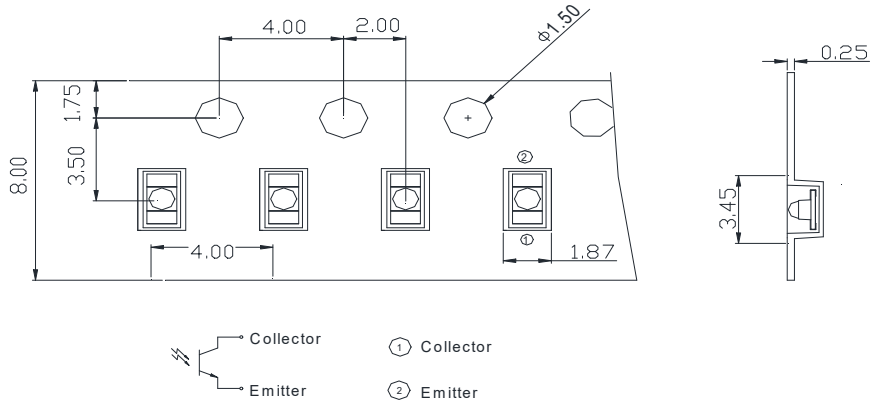
Operation heating : 255℃±5℃ Within 5 sec.260℃ (Max)

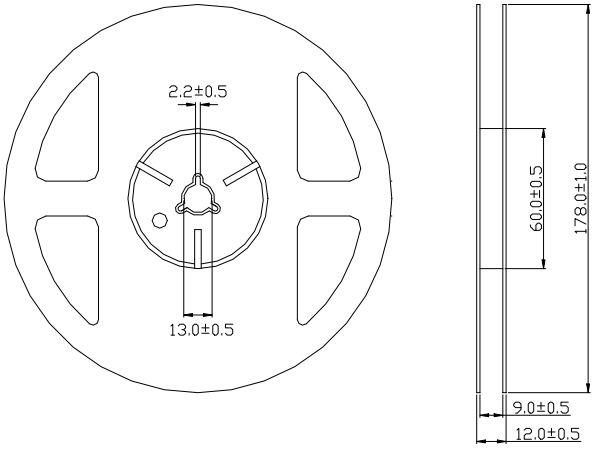
Gradual Cooling (Avoid quenching).

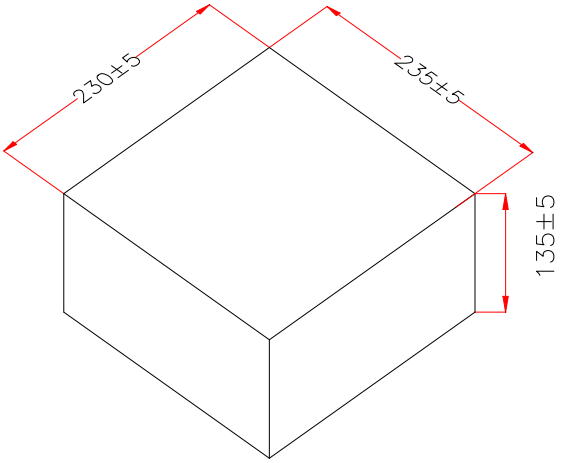


1. Reflow soldering should not be done more than two times.
2. When soldering, do not put stress on the LEDs during heating.
3. After soldering, do not warp the circuit board.

● Package Bag Dimensions







NOTES:

1. 4000 PCS per reel, 12 reels per Carton.
2. All dimensions are in millimeters (inches).
3. Tolerance is ±0.30mm (0.012") unless otherwise specified.
4. Specifications are subject to change without notice.