ZPT-1608B-08-Z3

0.8mm Height Flat Top Phototransistor

Descriptions

ZPT-1608C-08-Z3 is a phototransistor in miniature SMD Package which is molded in a black epoxy with flat top view lens.

The device is Spectrally matched to visible and infrared emitting diode.

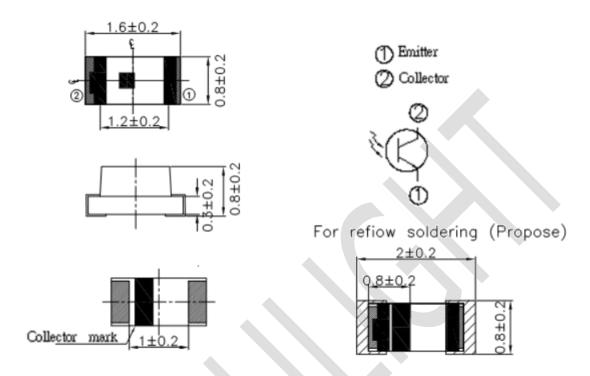
Features

- Fast response time
- High photo sensitivity
- Small junction capacitance
- Pb free
- The product itself will remain within RoHS compliant version
- Compliance with EU REACH
- Compliance Halogen Free.(Br<900ppm,Cl<900ppm,Br+Cl<1500ppm)

Applications

- Miniature switch
- Counters and sorter
- Position sensor
- Infrared applied system
- Encoder

Package Dimensions



Notes: 1. All dimensions are in millimeters

2. Tolerances unless dimensions ±0.1 mm

3.Suggested pad dimension is just for reference only Please modify the pad dimension based on individual need

Rank

Parameter	Symbol	Condition	Min.	Max.	Unit	
BIN2	Ic(on)	VCE=5V	0.3	0.82	m 1	
		Ee=1mW/c m ²	0.3	0.82	mA	
BIN3	Ic(on)	VCE=5V	0.7	1.0	A	
		Ee=1mW/c m ²	0.7	1.9	mA	
BIN4	Ic(on)	VCE=5V	1.14	2.6	A	
		Ee=1mW/c m ²			mA	

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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units	
Collector-Emitter Voltage	V_{CEO}	30	V	
Emitter-Collector-Voltage	V_{ECO}	5	V	
Collector Current	Ic	20	mA	
Operating Temperature	T _{opr}	-25 ~ +85	$^{\circ}$ C	
Storage Temperature	T_{stg}	-40 ~ +85	$^{\circ}$ C	
Soldering Temperature *1	T_{sol}	260	$^{\circ}$ C	
Power Dissipation at(or below) 25℃ Free Air Temperature	P_d	75	mW	

Notes: *1:Soldering time ≤ 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Spectral range of sensitivity	λ0.5		550		1050	nm
Wavelength Of Peak Sensitivity	λ_{P}			940		nm
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =100μA Ee=0mW/cm ²	30		1	٧
Emitter-Collector Breakdown Voltage	BV _{ECO}	I _E =100μA Ee=0mW/cm ²	5			V
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =2mA Ee=1mW/cm ²			0.4	V
Collector Dark Current	I _{CEO}	V _{CE} =20V Ee=0mW/cm ²			100	nA
On State Collector Current	I _{C(ON)}	V _{CE} =5V Ee=1mW/cm ²	0.3	0.6		mA

Typical Electro-Optical Characteristics Curves

Fig.1 Spectral Sensitivity

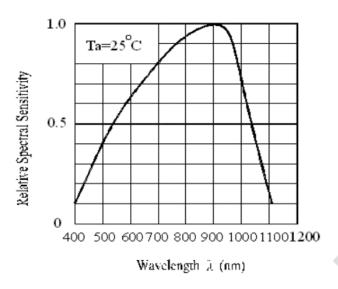
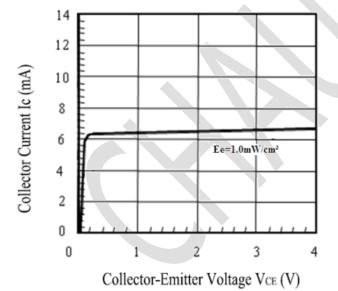
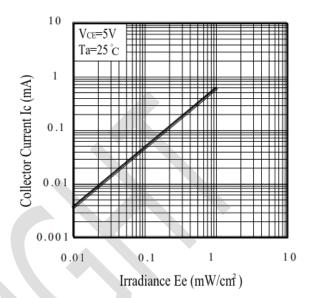


Fig.3 Collector Current vs.

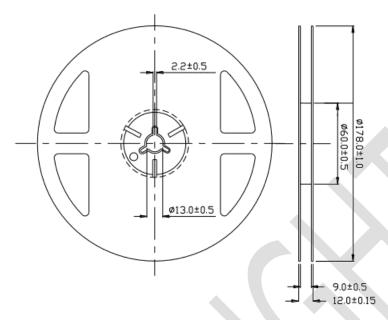
Collector-Emitter Voltage



.Fig.2 Collector Current vs.
Irradiance

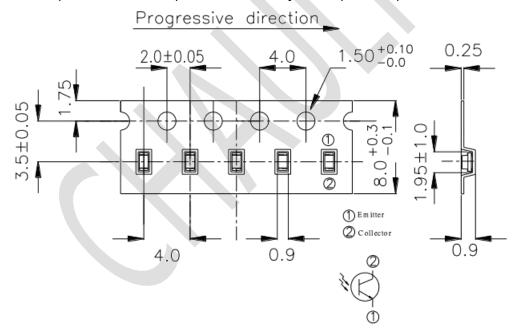


Package Dimensions



Note: The tolerances unless mentioned are ±0.1mm, Unit: mm

Carrier Tape Dimensions: (Loaded Quantity: 3000pcs/reel)



Note: The tolerances unless mentioned are ±0.1mm, Unit: mm

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E6C0805PRAC1UDA TSOP31136 TSOP31140 TSOP75238WTT RPM5537-H14E2A RPM6937-V4 RPM7136-H4R RPM7238-H5R

TSOP4156 TSOP6156TR TSOP75336WTT TSOP75338TR TSSP77038TT PD70-01C/TR7 TSSP57P38TT1 GP1UE292QKVF

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