imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

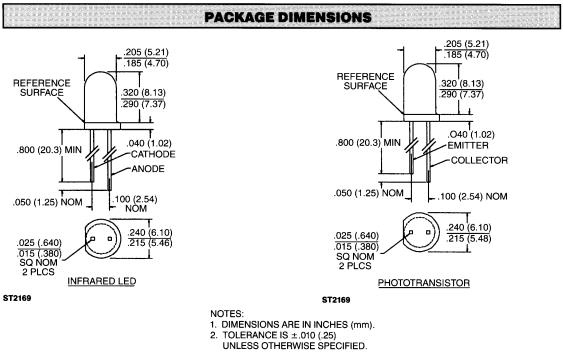
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





PLASTIC T-1¾ PAIR

QPD1223





The QPD1223 consists of an 880 nm AIGaAs LED and a silicon phototransistor mounted in plastic T-1¾ packages.



- Steel lead frames for improved reliability in solder mounting.
- Good optical-to-mechanical alignment.
- Narrow emission/reception angle.
- Black plastic body allows easy recognition of sensor.



PLASTIC T-1¾ PAIR

ABSOLUTE MAXIMUM RATINGS (T _A = 25°C Unle	ss Otherwise Specified)
Storage Temperature	-40°C to + 100°C -40°C to + 100°C -40°C to + 100°C
Lead Temperature (Iron) Lead Temperature (Flow)	
INPUT DIODE Continuous Forward Current Reverse Voltage Power Dissipation	
OUTPUT TRANSISTOR Collector-Emitter Voltage Emitter-Collector Voltage Power Dissipation	

ELECTRICAL CHAR	ACTERIS					pecified) pulse conditions.)
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
INPUT DIODE						
Forward Voltage	VF	_		1.70	V	$I_F = 20 \text{ mA}$
Reverse Leakage Current	I _R			100	μA	$V_{B} = 5.0 V$
OUTPUT TRANSISTOR						
Collector-Emitter Breakdown	BV_{CEO}	30		_	V	$I_{F} = 1.0 \text{ mA}, \text{ Ee} = 0$
Collector-Emitter Leakage	I _{CEO}	_		100	nA	$V_{ce} = 10.0 \text{ V}, \text{ Ee} = 0$
COUPLED						
On-State Collector Current						
QPD1223	IC(ON)	10.0		_	mA	$I_{\rm F}=20mA,V_{\rm cc}=5.0V,D=.250''^{\rm (4)}$

NOTES

Derate power dissipation linearly 2.67 mW/°C above 25°C for LED and 1.33 mW/°C for sensor.
RMA flux is recommended.

Soldering iron tip ¼e" (1.6mm) minimum from case.
D is the distance from lens tip to lens tip.
As long as leads are not under any stress or spring tension.



PLASTIC T-1¾ PAIR

ABSOLUTE MAXIMUM RATINGS (T _A = 25°C Unless	Otherwise Specified)
Storage Temperature Operating Temperature Soldering: Lead Temperature (Iron) Lead Temperature (Flow)	
Continuous Forward Current	5.0 Volts 200 mW"
OUTPUT TRANSISTOR Collector-Emitter Voltage Emitter-Collector Voltage Power Dissipation	

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
INPUT DIODE						
Forward Voltage	VF	_		1.70	V	$I_F = 20 \text{ mA}$
Reverse Leakage Current	I _R	_		100	μA	$V_{R} = 5.0 V$
OUTPUT TRANSISTOR						
Collector-Emitter Breakdown	BV_{CEO}	30		_	V	$I_{F} = 1.0 \text{ mA}, \text{ Ee} = 0$
Collector-Emitter Leakage	I _{CEO}	_		100	nA	$V_{ce} = 10.0 \text{ V}, \text{ Ee} = 0$
COUPLED						~~~~~
On-State Collector Current						
QPD1223		10.0		_	mA	$I_{\rm F} = 20 {\rm mA}, V_{\rm cc} = 5.0 {\rm V}, {\rm D} = .25$

NOTES

Derate power dissipation linearly 2.67 mW/°C above 25°C for LED and 1.33 mW/°C for sensor.
RMA flux is recommended.

Soldering iron tip ¼e" (1.6mm) minimum from case.
D is the distance from lens tip to lens tip.
As long as leads are not under any stress or spring tension.



PLASTIC T-13/4 PAIR

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