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

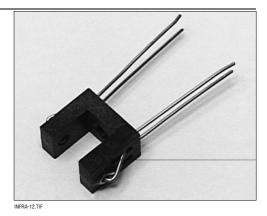
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



HOA1875 Transmissive Sensor

FEATURES

- Choice of phototransistor or photodarlington output
- · Low profile package
- Wide operating temperature range (- 55°C to +100°C)
- 0.200 in.(5.08 mm) slot width



DESCRIPTION

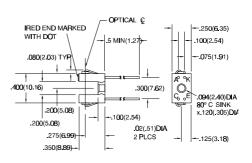
The HOA1875 series consists of an infrared emitting diode facing an NPN silicon phototransistor (HOA1875-001, - 002) or photodarlington (HOA1875-003) encased in a black thermoplastic housing. Detector switching takes place whenever an opaque object passes through the slot between emitter and detector. The HOA1875 series has a 0.050 in.(1.27 mm) dia. detector aperture and employs metal can packaged components. For additional component information see SE1450, SD1440, and SD1410.



Housing material is opaque polysulfone. Housings are soluble in chlorinated hydrocarbons and ketones. Recommended cleaning agents are methanol and isopropanol.
 OUTLINE DIMENSIONS in inches (mm)

 Tolerance
 3 plc decimals
 ±0.010(0.25)

 2 plc decimals
 ±0.020(0.51)



DIM_047.cdr

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HOA1875 Transmissive Sensor

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)						
PARAMETER	SYMBOL	MIN	ТҮР	MAX	UNITS	TEST CONDITIONS
IR EMITTER						
Forward Voltage	VF			1.6	V	l _F =20 mA
Reverse Leakage Current	IR			10	μΑ	V _R =3 V
DETECTOR						
Collector-Emitter Breakdown Voltage	V(BR)CEO				V	Ic=100 μΑ
HOA1875-001, -002		30				
HOA1875-003		15				
Emitter-Collector Breakdown Voltage	V(BR)ECO	5.0			V	I _E =100 μΑ
Collector Dark Current	ICEO				nA	V _{CE} =10 V
HOA1875-001, -002				100		l⊨=0
HOA1875-003				250		
COUPLED CHARACTERISTICS						
On-State Collector Current	C(ON)				mA	V _{CE} =5 V
HOA1875-001		0.15				I _F =30 mA
HOA1875-002		0.6				
HOA1875-003		1.8				
Collector-Emitter Saturation Voltage	VCE(SAT)				V	l _F =20 mA
HOA1875-001				0.4		Ic=20 μΑ
HOA1875-002				0.4		Ic=80 μΑ
HOA1875-003				1.1		Ic=230 μΑ
Rise And Fall Time	tr, tf				μs	Vcc=5 V, Ic=1 mA
HOA1875-001, -002			15			RL=1000 Ω
HOA1875-003			75			RL=100 Ω

ABSOLUTE MAXIMUM RATINGS

(25°C Free-Air Temperature unless otherwise noted) Operating Temperature Range -55°C to 100°C

 Storage Temperature Range
 -55 °C to 100 °C

 Storage Temperature Range
 -55 °C to 125 °C

 Soldering Temperature (10 sec)
 260 °C

 IR EMITTER
 260 °C

 Power Dissipation
 75 mW ⁽¹⁾

 Reverse Voltage
 3 V

 Continuous Forward Current
 50 mA

 DETECTOR
 TRANS.
 DA

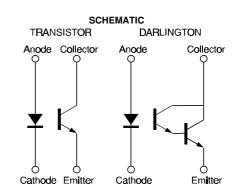
 Collector-Emitter Voltage
 30 V
 15

 Emitter-Collector Voltage
 5 V
 5 V

Emitter-Collector Voltage Power Dissipation Collector DC Current 75 mW ⁽¹⁾ 3 V 50 mA **TRANS. DARLINGTON** 30 V 15 V 5 V 5 V 75 mW ⁽¹⁾ 75 mW ⁽¹⁾

30 mA

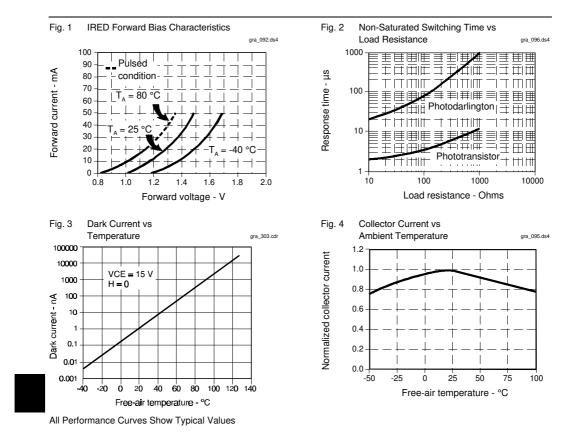
30 mA



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