

Transmissive Assembly, Side Mount **Assemblies**

T-41-73

HOA1884 SERIES

The HOA1884 Series transmissive assemblies are interruptive devices, utilizing a GaAs infrared emitting diode and a silicon photosensor in an opaque plastic housing with a 0.125" slot width. The side mounting package is useful in applications requiring the interrupter to be parallel to the mounting plane. The sensor aperture is 0.02", allowing precise position sensing. The output device is a phototransistor in HOA1884-11 and HOA1884-12, and a photodarlington in HOA1884-13, providing three sensitivity ranges.

ELECTRICAL CHARACTERISTICS (@ 25°C unless otherwise specified)

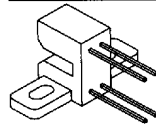
Parameter	Test Conditions	Sym.	Min.	Max.	Units
IRED					
Forward Voltage	$I_F = 20 \text{ mA}$	V_F	—	1.5	V
Reverse Leakage Current	$V_R = 3.0 \text{ V}$	I_R	—	10	μA

PHOTOSENSOR

Breakdown Voltage, C to E		BV_{CEO}			
HOA1884-11	$I_C = 100 \mu\text{A}$		30	—	V
HOA1884-12			30	—	V
HOA1884-13			15	—	V
Breakdown Voltage, E to C		BV_{ECO}			
HOA1884-11	$I_E = 100 \mu\text{A}$		5	—	V
HOA1884-12			5	—	V
HOA1884-13			5	—	V
Dark Current		I_{CEO}			
HOA1884-11	$V_{CE} = 10 \text{ V},$		—	100	nA
HOA1884-12	$I_F = 0$		—	100	nA
HOA1884-13			—	250	nA

COUPLED

On-state Collector Current		$I_{C(ON)}$			
HOA1884-11	$V_{CE} = 5 \text{ V},$		0.3	—	mA
HOA1884-12	$I_F = 20 \text{ mA}$		1.8	—	mA
HOA1884-13			4.0	—	mA
Saturation Voltage		$V_{CE(SAT)}$			
HOA1884-11	$I_C = 0.04 \text{ mA},$		—	0.4	V
HOA1884-12	$I_F = 20 \text{ mA}$		—	0.4	V
HOA1884-13			—	1.1	V

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Catalog Listing	Description
HOA1884-11	0.3 mA minimum current, phototransistor
HOA1884-12	1.8 mA minimum current, phototransistor
HOA1884-13	4.0 mA minimum current, photodarlington