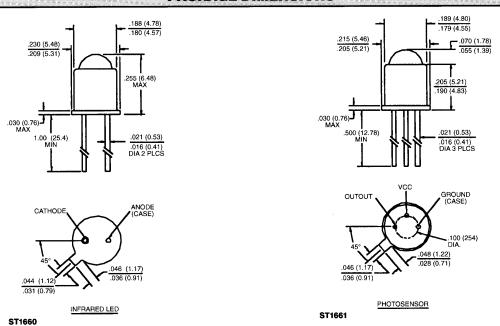


HERMETIC PAIR

QPA8259

PACKAGE DIMENSIONS



NOTES:

- DIMENSIONS ARE IN INCHES [mm].
 TOLERANCE IS ± .010 [.25]
 UNLESS OTHERWISE SPECIFIED.

DESCRIPTION

The QPA8259 consists of an 880nm AlGaAs LED and an OPTOLOGIC™ silicon photosensor mounted in hermatically sealed packages.

FEATURE

- Narrow emission/reception angle
- Hermetically sealed packages





C to +150°C C to +125°C
or 5 sec. ^{(3,4,5} or 10 sec. ^{(3,4}
60 m/
3.0 Volts
170 mW ^c
50 mA
5 to 16 Volts
5 to 16 Volts

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITIONS
INPUT DIODE						
Forward Voltage	V_{F}	_		1.7	٧	$I_F = 20 \text{ mA}$
Reverse Leakage Current	I _R	_		10	μΑ	V _B = 3 V
OUTPUT OPTOLOGIC™						
Operating Supply Voltage	V_{cc}	4.5		16.0	٧	
Supply Current	Icc	_		12.0	mA	E _e = 0 or 0.3 mW/cm ²
Output Current High	l _{он}	_		10	μΑ	$E_e = 0, V_{OH} = 30 \text{ V}$
Low Level Output Voltage	V _{oL}	_		0.4	٧	$E_e = .3 \text{ mW/cm}^2$, $R_L = 270\Omega$
COUPLED						
Turn-On Threshold Current	$I_{F(+)}$	_		20.0	mA	$V_{\text{cc}}=5$ V, $R_{\text{\tiny L}}=270\Omega,D=.250^{\prime\prime(6)}$
Turn-Off Threshold Current	I _{F(-)}	1.0		_	mA	$V_{cc} = 5 \text{ V}, R_L = 270\Omega, D = .250''^{(6)}$
Hysteresis Ratio	I _{F(+)} /I _{F(-)}	1.1		2.0		$V_{cc} = 5 \text{ V}, R_L = 270\Omega, D = .250''^{(6)}$

NOTES

- Derate power dissipation linearly 1.70 mW/°C above 25°C.
 Derate power dissipation linearly 2.50 mW/°C above 25°C.
- 3. RMA flux is recommended.
- Methanol or Isopropyl alcohols are recommended as cleaning agents.
 Soldering iron tip 1/4" (1.6 mm) from housing.
 D is the distance from lens tip to lens tip.



HERMETIC PAIR

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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.