		i	$\sim$	wto	750-191	J-TAB
			REVISI	ONS		
DOCUMENTATION CONTROL 1	LTR.		DESCRIP	TION	DATE	APPROVED
CLASS EFFECT. DATE APPROV.  A B  C S///// Jyn	A	ECN #C265	CHANGES PER	ENG. INPUT	A.M.10-18-83	19/10/2013
B						

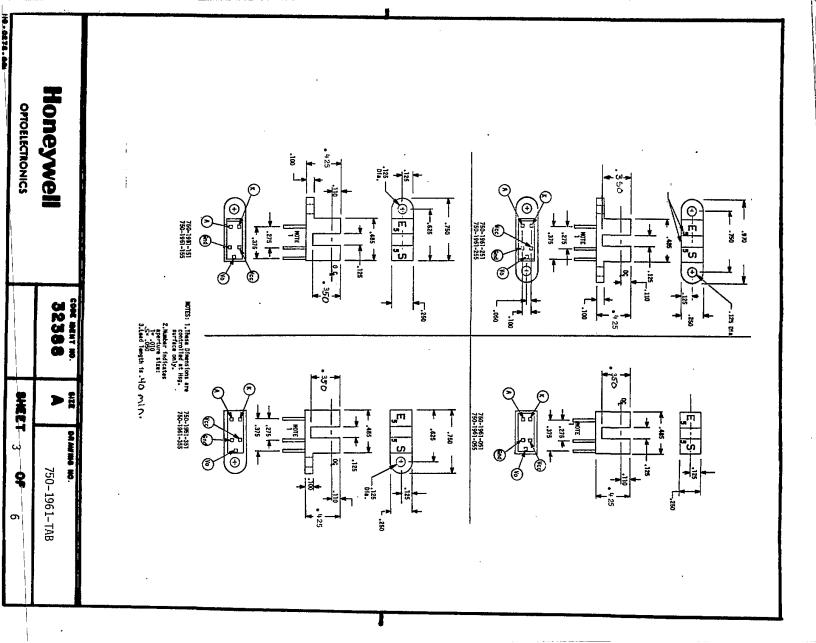
## NOTES:

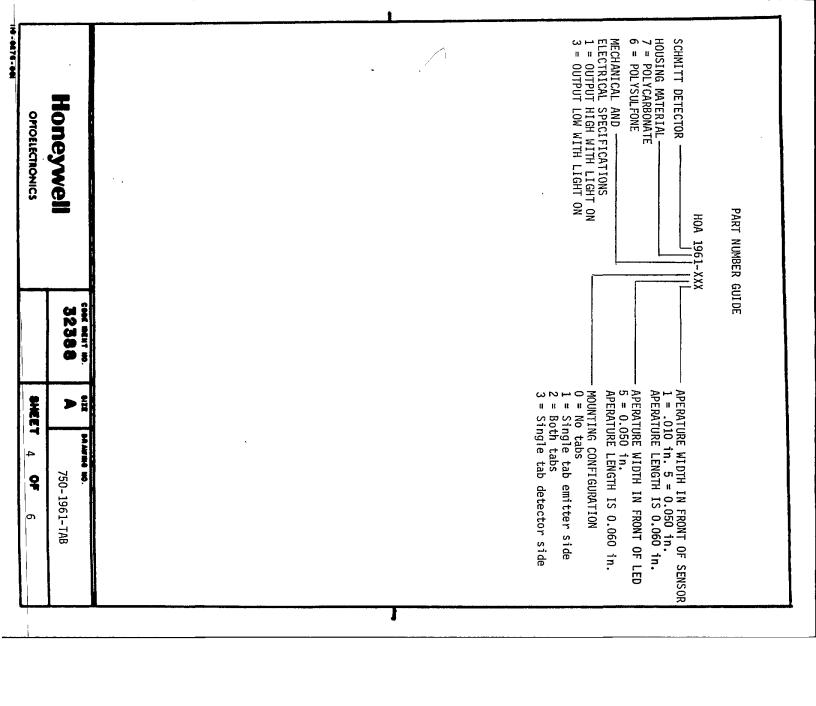
- 1. THIS IS A STANDARD HONEYWELL PART.
- 2. THE HOA-1961 SHALL MEET THE SPECIFICATION OF THIS DOCUMENT.

SEE SHEET 2 ITEM -003 -002 -001 HONEYWELL OPTO. GOVT OR INDUSTRY DESCRIPTION OR NOMENCLATURE NO QTY. REQ'D PART OR IDENTIFYING NO. UNLESS OTHERWISE SPECIFIED A. MARPLE 8-4-83 DIMENSIONS ARE IN INCHES TOLERANCES: Honeywell ANGLES 110 3 PLACE DECIMAL ±.005 2 PLACE DECIMAL ±.02 **OPTOELECTRONICS** TITLE MATERIAL: OPTO SCHMITT SWITCH FINAL HOA 1961-TAB 32388 MEXT ASSY USED ON 750-1961-TAB Α **APPLICATION** SCALE SHEET 1 OF

<b>**6</b> . 750-1961-TAB	9422	000 200 300 300 300	Honeywell	Hone
		•		
753-1961-TAB	'51-1961-TAB	751	730-0442-008	750-1961-355
753-1961-TAB	751-1961-TAB	751	730-0442-007	750-1961-351
753-1961-TAB	751-1961-TAB	751	730-0442-006	750-1961-255
753-1961-TAB	751-1961-TAB	751	730-0442-005	750-1961-251
753-1961-TAB	751-1961-TAB	751	730-0442-004	750-1961-155
753-1961-TAB	751-1961-TAB	751	730-0442-003	750-1961-151
753-1961-TAB	751-1961-TAB	751	730-0442-002	750-1961-055
753-1961-TAB	751-1961-TAB	751	730-0442-001	750-1961-051
QAI	MFG. AND TEST PROCEDURE	MFG P	ASSEMBLY DWG.#	P/N ·

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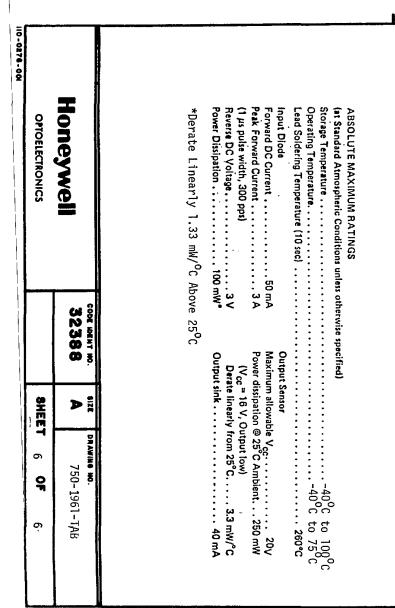
## ELECTRICAL CHARACTERISTICS @ TA = 25°C

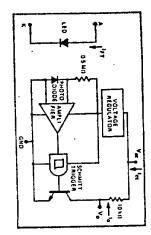
V <sub>CC</sub> = 5 V						
CL = 50 pF, RL = 390Ω,	KH2	100			Fm	Maximum Operating Freq.
Note 1,	· mA	20	-		lFT	Required LED Current
Note 2,	%	30	10	5		Hysteresis
CL = 50 pF, RL = 390Ω V <sub>cc</sub> = 5 V, Figure 1	25	15	6		4	Output fall time (90 - 10%)
C <sub>L</sub> = 50 pF, R <sub>L</sub> = 390Ω V <sub>CC</sub> = 5 V,	25	150	60		ţ	Output rise time (10 · 90%)
CL = 50 pF, RL = 390Ω	n sec	ហ	2.5	,	ጉዞф	Propagation delay time Output high to low
IF = 10 mA, CL = 50 pF, RL = 390Ω	n sec	თ			фLН	Propagation delay time output low to high
V <sub>CC</sub> = 5 V	πA	1	Ŋ		lec	Supply Current (50% duty cycle)
V <sub>CC</sub> = 16 V	mA A	12 10	2 5		Іссн	Supply Current with output high
V <sub>CC</sub> = 16 V V <sub>CC</sub> = 5 V	m m	ಸಹ	7		lca	Supply Current with output low
Note that output is tied to $V_{GG}$ thru an internal $10k\Omega$ resistor		1	Vcc		V <sub>ОН</sub>	Output Voltage HIGH
-40°C < T <sub>A</sub> < 100°C	<	4.	.2		VoL	Output Voltage LOW
		16		4.5	Vcc	Operating Supply Voltage Range
						DETECTOR
iR = 10 μA	<	ω			VR	Input Reverse Voltage
VR = 3.0V	μΑ	5			<sup>1</sup> R	Reverse Leakage Current
1F = 20 mA	<	1.5			٧F	Forward Voltage
						LED .
TEST CONDITIONS	STIND	MAX	ΤΥρ	S Z	SYMBOL	PARAMETER

- NOTES

  1. Required LED Current is the forward LED current required to trigger the detector output from LOW to HIGH.
  Higher LED current may be required for application where optical transmission is reduced.
- 2. Hysteresis is defined in terms of irradiance (mW/cm²) transmitted to the detector and is equal to the difference in the threshold point (min. irradiance to switch the output high) to the release point (reduced amount of irradiance to switch the output back low) divided by the threshold point.

110-0276-001	OPTOELECTRONICS	Honeywell 32388	
	SHEE	>	
	SHEET 5 OF 6	750-1961-#AB	





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