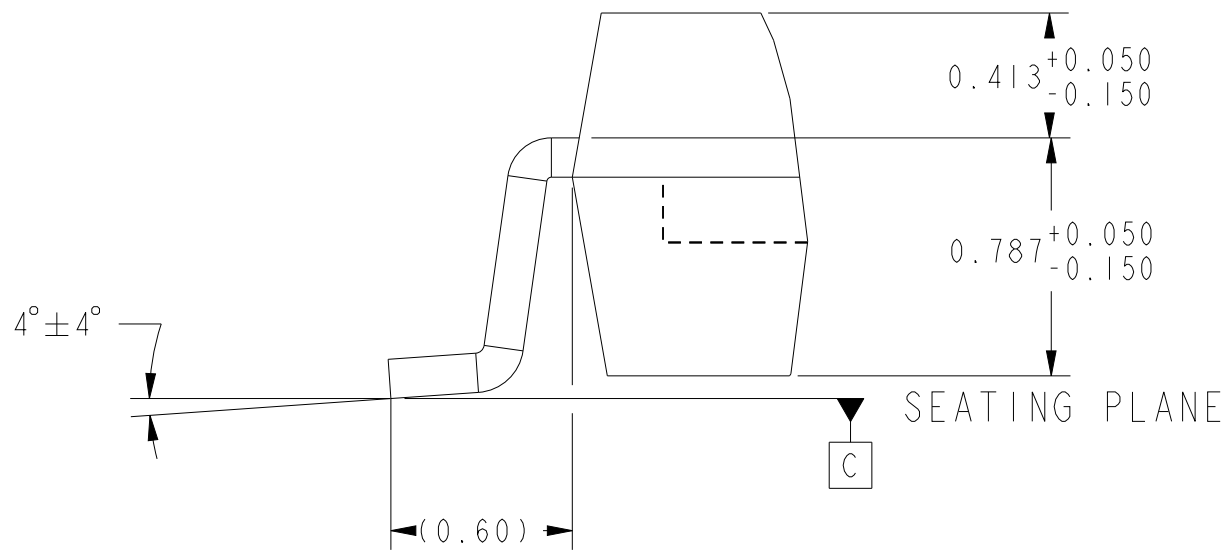
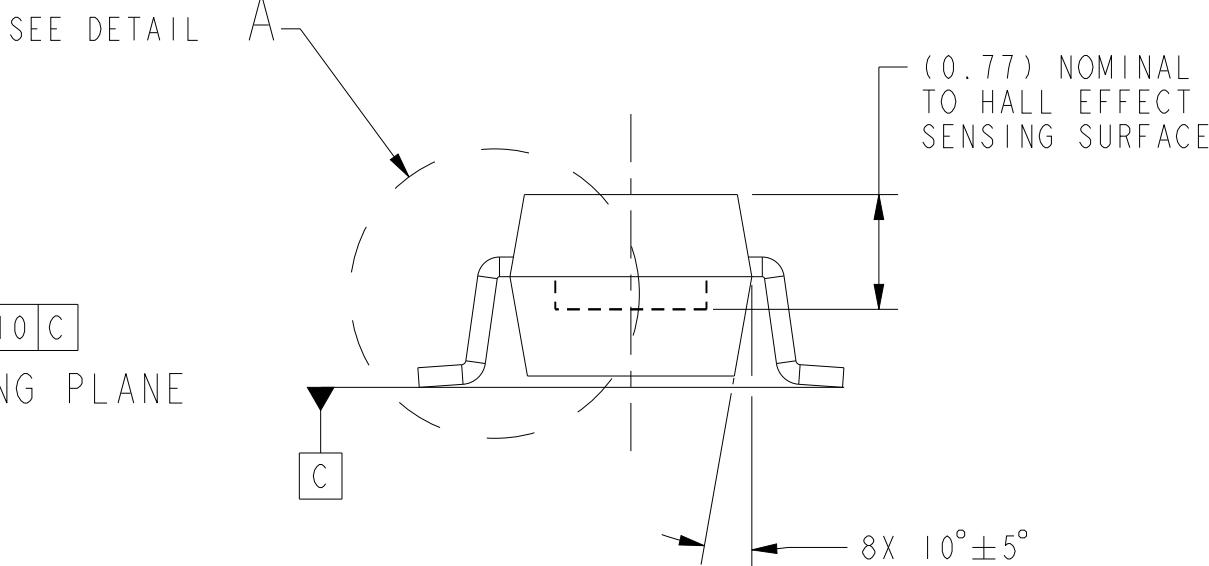
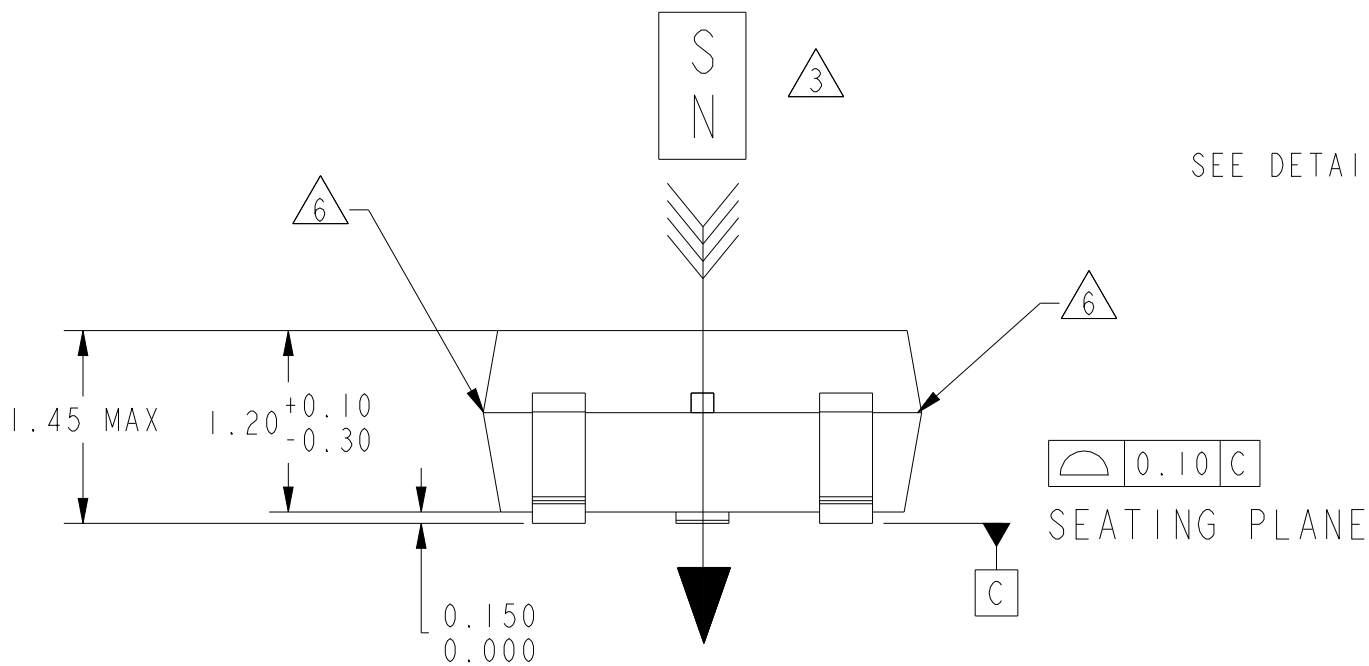
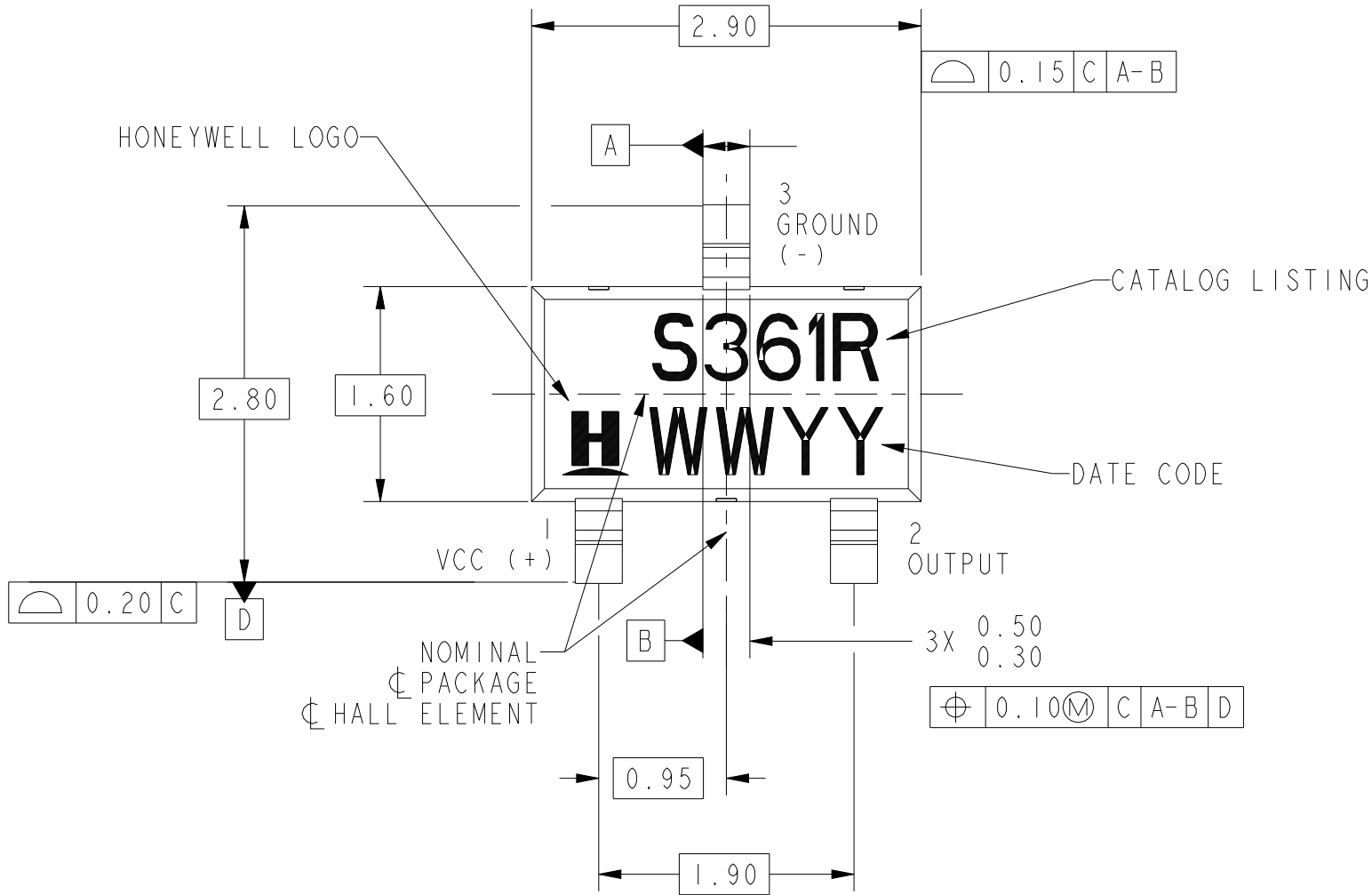


HONEYWELL PART NUMBER
SS361RT

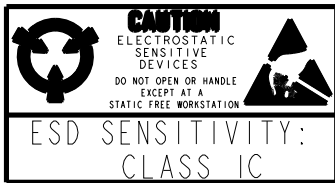
REV	DOCUMENT	CHANGED BY	CHECK
E	0068435	MH 19AUG10	RS



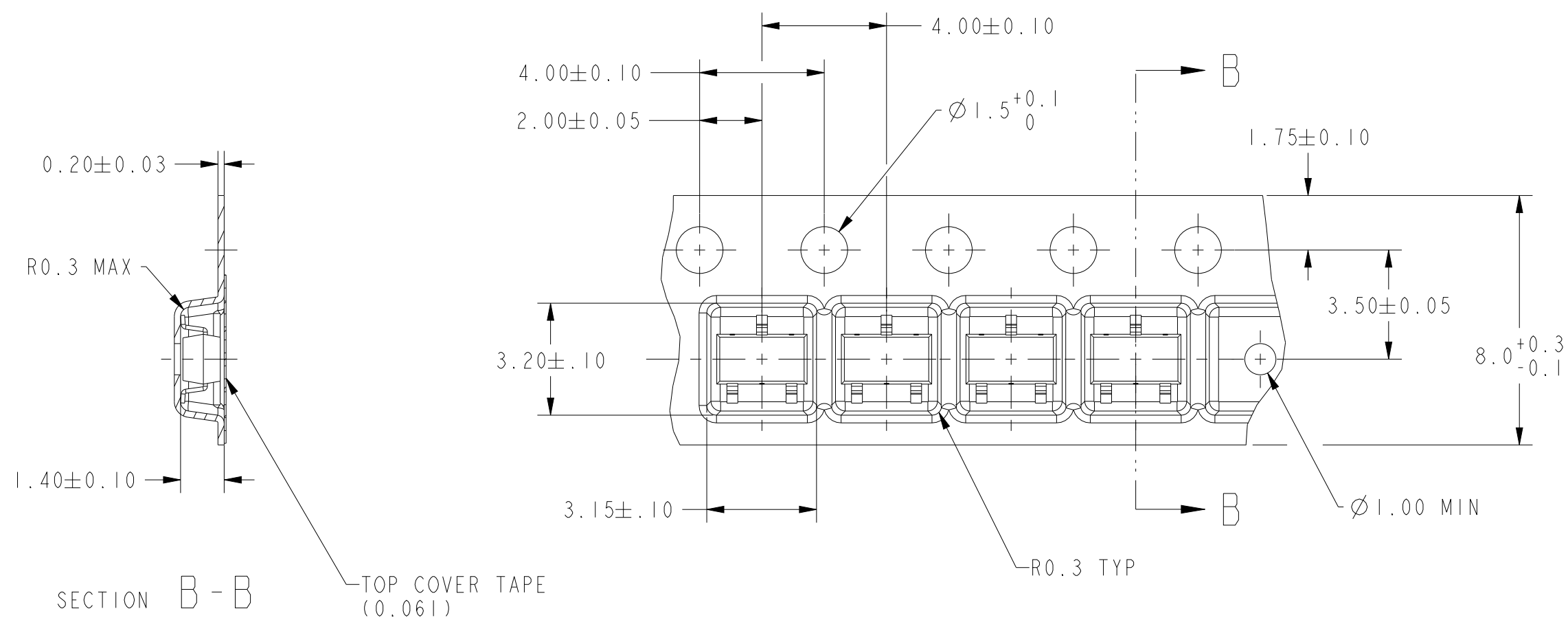
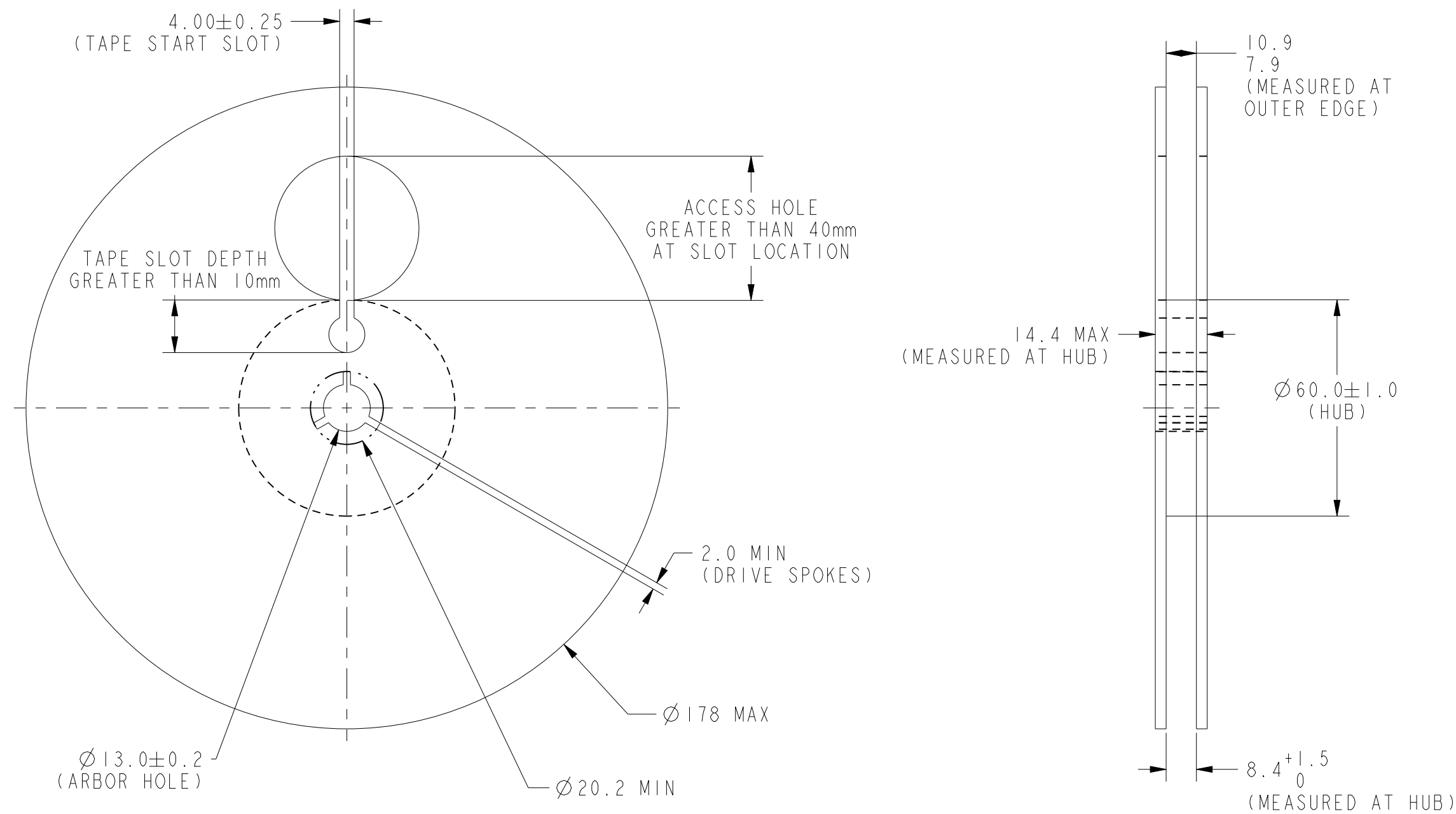
DETAIL A
SCALE 40:1

NOTES

- SOLDERING INSTRUCTIONS: EXPOSURE TO HIGH TEMPERATURES SHOULD BE KEPT AT A MINIMUM HONEYWELL RECOMMENDS AN INFRARED REFLOW PROCESS WITH PEAK TEMPERATURES NOT EXCEEDING 245°C FOR 10 SECONDS MAXIMUM. DO NOT WAVE SOLDER THIS PRODUCT, AS THIS PROCESS MAY NEGATIVELY AFFECT THE SENSOR'S PERFORMANCE AND RELIABILITY. SUBJECTING THESE PRODUCTS TO WAVE SOLDERING WILL VOID HONEYWELL'S WARRANTY.
- ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THE DEVICE WILL MOMENTARILY WITHSTAND WITHOUT DAMAGE TO THE DEVICE. ELECTRICAL AND MAGNETIC CHARACTERISTICS ARE NOT GUARANTEED IF THE SPECIFIED VOLTAGE AND/OR CURRENTS ARE EXCEEDED NOR WILL THE DEVICE NECESSARILY OPERATE AT ABSOLUTE MAXIMUM RATING.
- THE MAGNETIC FLUX USED TO OPERATE THE SWITCH MUST BE IN THE DIRECTION AND LOCATION SHOWN. (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET)
- THE MAGNETIC FIELD STRENGTH (GAUSS) REQUIRED TO CAUSE THE SWITCH TO CHANGE STATE (OPERATE AND RELEASE) WILL BE AS SPECIFIED IN THE MAGNETIC CHARACTERISTICS. TO TEST THE SWITCH AGAINST THE SPECIFIED MAGNETIC CHARACTERISTICS, THE SWITCH MUST BE PLACED IN A UNIFORM MAGNETIC FIELD.
- THIS PRODUCT WILL BE SUPPLIED IN TAPE AND REEL FORM PER EIA STD 481. GATE VESAGE PERMITTED IN THESE AREAS. UNDERFLUSH BREAKOUT LIMITED TO .007.
- THESE HALL EFFECT SENSORS MAY HAVE AN INITIAL OUTPUT IN EITHER THE ON OR OFF STATE IF POWERED UP WITH AN APPLIED MAGNETIC FIELD IN THE DIFFERENTIAL ZONE (APPLIED MAGNETIC FIELD > Brp AND < Bop). HONEYWELL RECOMMENDS THAT THE APPLICATION CIRCUIT DESIGNER ALLOW 10 MICROSECONDS AFTER SUPPLY VOLTAGE HAS REACHED 5 VOLTS FOR THE OUTPUT VOLTAGE TO STABILIZE.



DESIGN UNITS: MM TOLERANCES UNLESS NOTED:	DRAWN JLH 29 JAN 09	Honeywell			
NO PLACES X ± 1.000 ONE PLACE .X ± 0.40 TWO PLACE .XX ± 0.150 THREE PLACE .XXX ± 0.005 ANGLES X ± 3.0°	CHECK JLH 29 JAN 09				
THIRD ANGLE PROJECTION		TITLE SOLID STATE SENSOR, IC			
		SIZE C	TYPE I	CAGE CODE -	REV E
		DRAWING NAME SS361RT		SHEET 1 OF 3	
		SCALE NONE			

TAPE AND REEL DIMENSIONS $\triangle 5$ 

DIRECTION OF FEED FROM REEL



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ITEM AND IS THE PROPERTY OF
HONEYWELL. THIS DRAWING IS
NOT TO BE COPIED OR USED WITHOUT
THE PERMISSION OF HONEYWELL.

Honeywell

SIZE	TYPE	CAGE CODE	DRAWING NAME	REV
C	I	-	SS361RT	E
SCALE	NONE		SHEET	2 OF 3

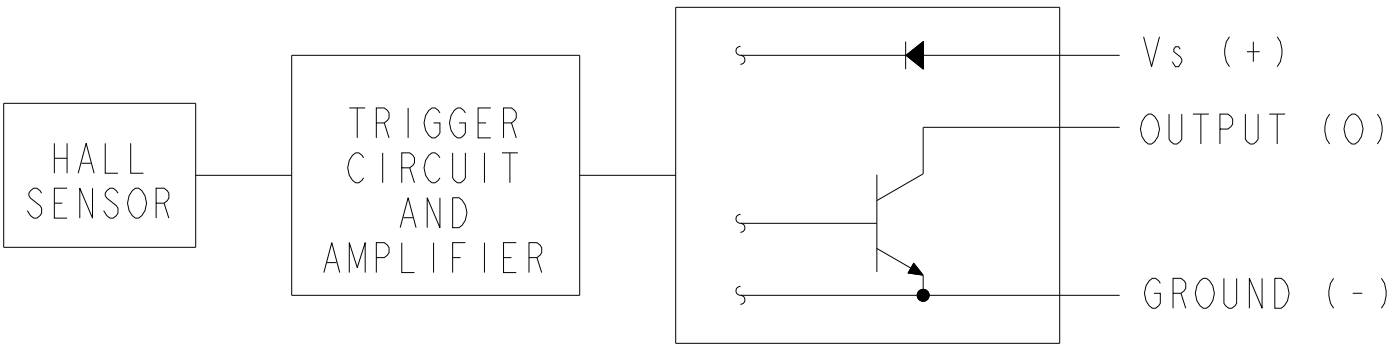
CHARACTERISTICS ARE AT $V_s=3.0$ TO 24.0 VOLTS WITH 20 mA LOAD WITH $\triangle$ $\triangle$
 $T_A=-40^{\circ}\text{C}$ TO $+150^{\circ}\text{C}$ UNLESS OTHERWISE NOTED

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SUPPLY VOLTAGE	-40°C TO 125°C	3.0		24.0	VOLTS
	150°C	3.0		12.0	
SUPPLY CURRENT	$V_{\text{SUPPLY}}=5\text{V}$ AT 25°C		4.0	6.0	mA
	$V_{\text{SUPPLY}}=3\text{V}$ AT 25°C		3.5	5.0	
				8.0	
OUTPUT CURRENT				20.0	mA
V_{sat}	GAUSS > 120			0.4	VOLTS
OUTPUT LEAKAGE	GAUSS < -120			10.0	μA
RISE TIME	25°C			1.5	μS
FALL TIME	25°C			1.5	μS
THERMAL RESISTANCE $R_{\theta JA}$	SINGLE LAYER, SINGLE SIDED PCB		303		$^{\circ}\text{C/W}$
OPERATE		5	50	120	GAUSS
RELEASE		-120	-50	-5	GAUSS
DIFFERENTIAL		50	100	170	GAUSS
OPERATING TEMP		-40		+150	$^{\circ}\text{C}$
STORAGE TEMP		-40		+150	$^{\circ}\text{C}$

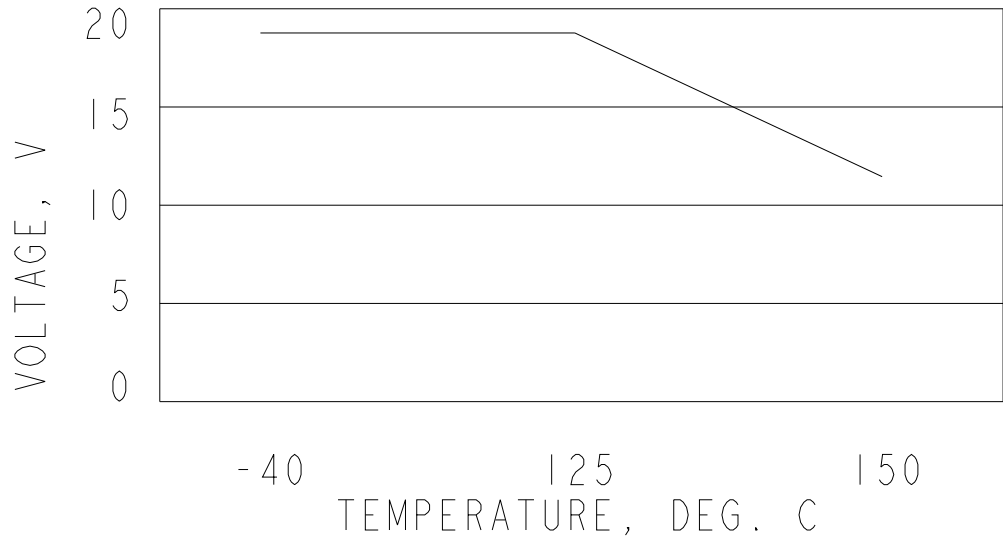
ABSOLUTE MAXIMUM RATINGS $\triangle$

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SUPPLY VOLTAGE		-28.0		28.0	VOLTS
APPLIED OUTPUT VOLTAGE		-0.5		28.0	VOLTS
OUTPUT CURRENT				20.0	mA
MAGNETIC FLUX				NO LIMIT	GAUSS

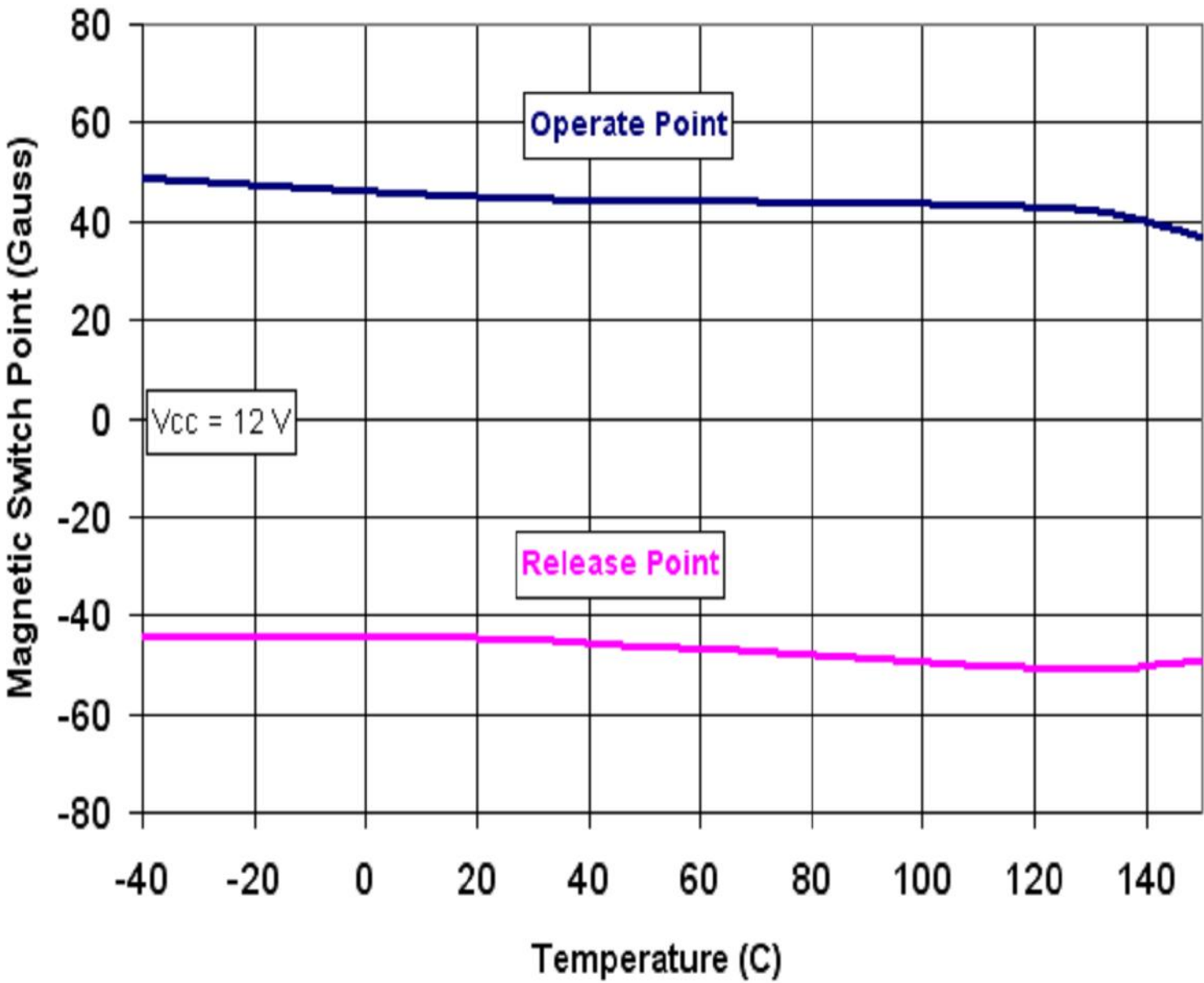
BLOCK DIAGRAM CURRENT SINKING OUTPUT



RATED SUPPLY VOLTAGE



Typical SS361RT Magnetic Performance vs Temperature



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Honeywell

SIZE	TYPE	CAGE CODE	DRAWING NAME	REV
C	I	-	SS361RT	E
SCALE NONE		SHEET 3 OF 3		