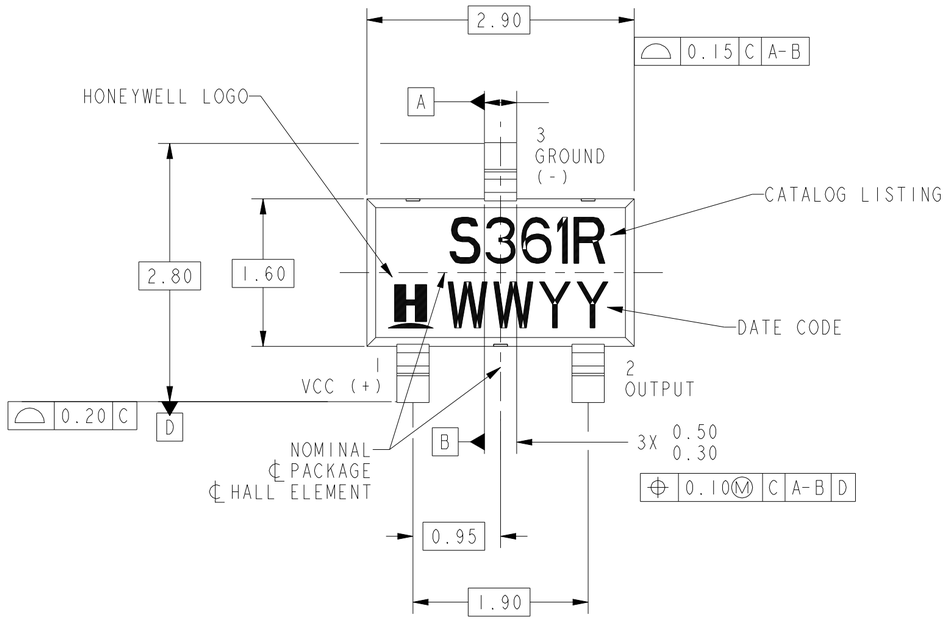
FO-55112-C

HONEYWELL PART NUMBER
SS361RT

REV	DOCUMENT	CHANGED BY	CHECK
E	0068435	MH 19AUG10	RS



NOTES

1 - 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

△2 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

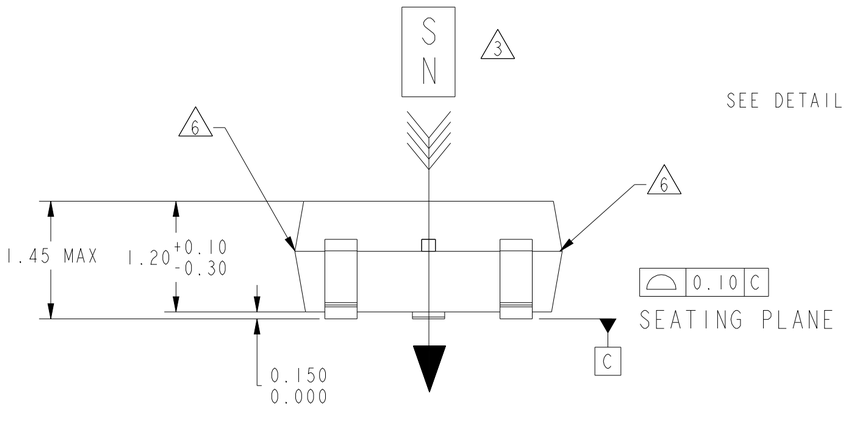
△3 THE MAGNETIC FLUX USED TO OPERATE THE SWITCH MUST BE IN THE DIRECTION AND LOCATION SHOWN. (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET)

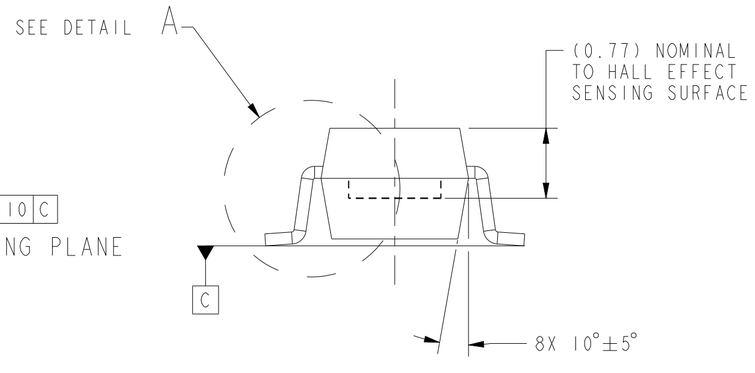
△4 THE MAGNETIC FIELD STRENGTH (GAUSS) REQUIRED TO CAUSE THE SWITCH TO CHANGE STATE (OPERATE AND RELEASE) WILL BE AS SPECIFIED IN THE MAGNETIC CHARACTERISTICS. TO TEST THE SWITCH AGAINST THE SPECIFIED MAGNETIC CARACTERISTICS, THE SWITCH MUST BE PLACED IN A UNIFORM MAGNETIC FIELD

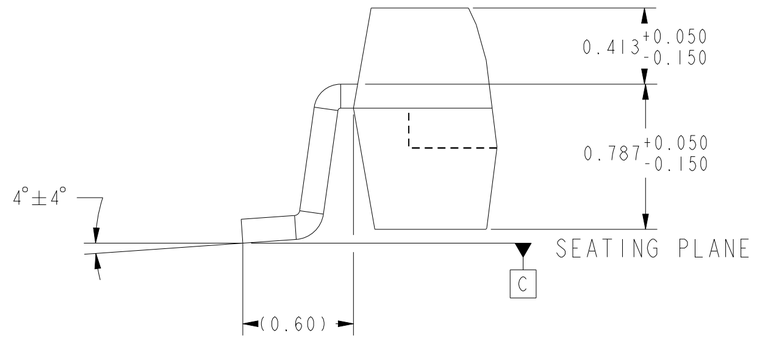
△5 THIS PRODUCT WILL BE SUPPLIED IN TAPE AND REEL FORM PER EIA STD 481.

△6 GATE VESAGE PERMITTED IN THESE AREAS. UNDERFLUSH BREAKOUT LIMITED TO .007

△7 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







DETAIL A
SCALE 40:1

CAUTION
ELECTROSTATIC SENSITIVE DEVICES
DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION

ESD SENSITIVITY: CLASS 1C

DESIGN UNITS: MM			
TOLERANCES UNLESS NOTED:			
NO PLACES	X	±	1.000
ONE PLACE	.X	±	0.40
TWO PLACE	.XX	±	0.150
THREE PLACE	.XXX	±	0.005
ANGLES	X	±	3.0°

THIRD ANGLE PROJECTION

DRAWN	JLH	29 JAN 09
CHECK	JLH	29 JAN 09

INTERPRET PER ASME Y14.5M-1994
OTHER HONEYWELL ENGINEERING STANDARDS MAY APPLY

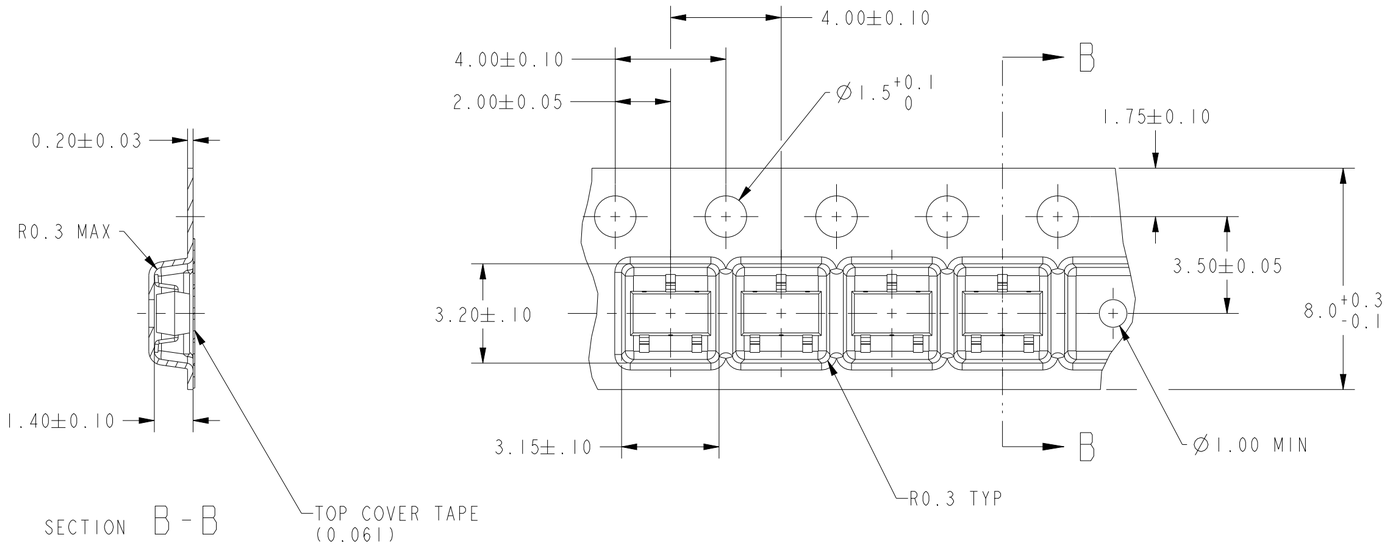
Pro/ENGINEER 3D

Honeywell

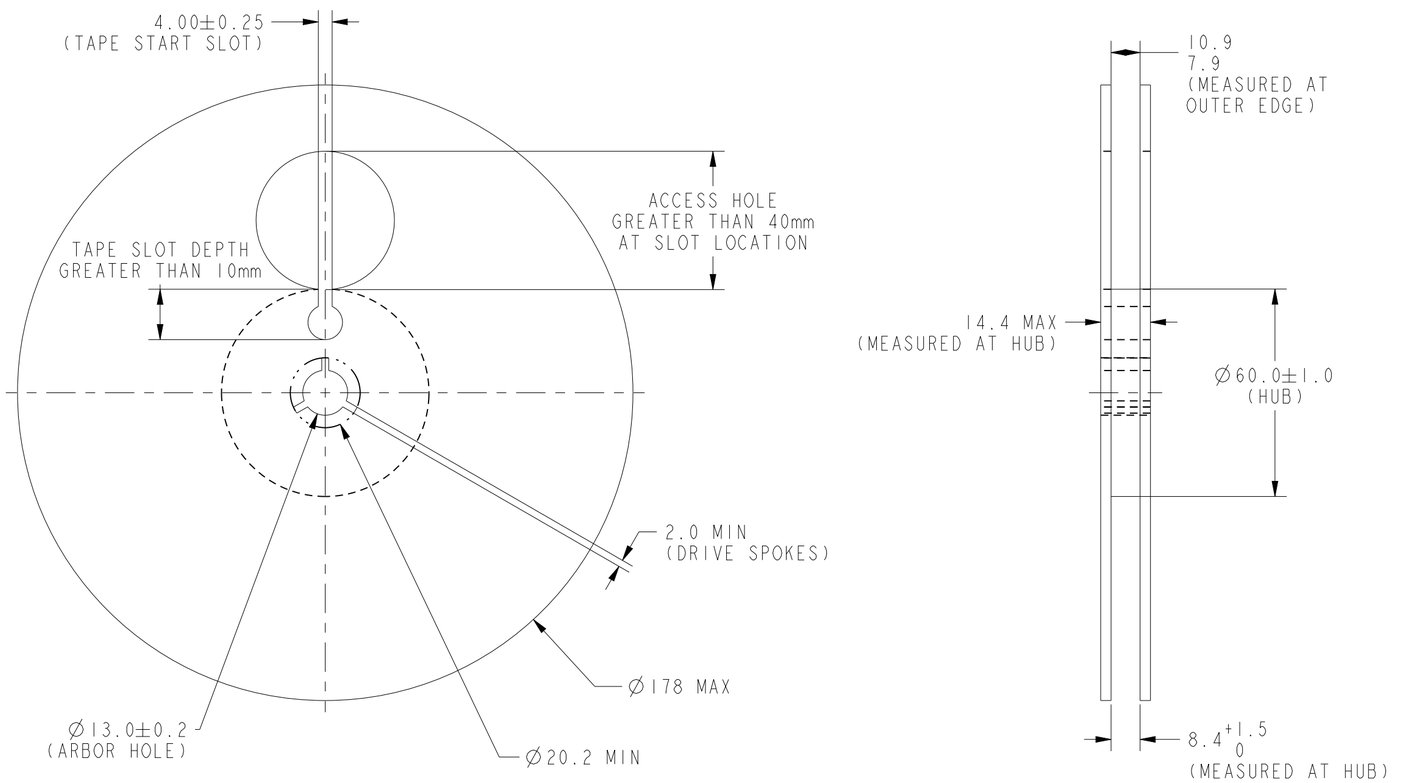
TITLE
SOLID STATE SENSOR, IC

SIZE	TYPE	CAGE_CODE	DRAWING NAME	REV
C	1	-	SS361RT	E

SCALE NONE SHEET 1 OF 3



TAPE AND REEL DIMENSIONS 5



DIRECTION OF FEED FROM REEL

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SIZE	TYPE	CAGE_CODE	DRAWING NAME	REV
C	1	-	SS361RT	E

SCALE NONE

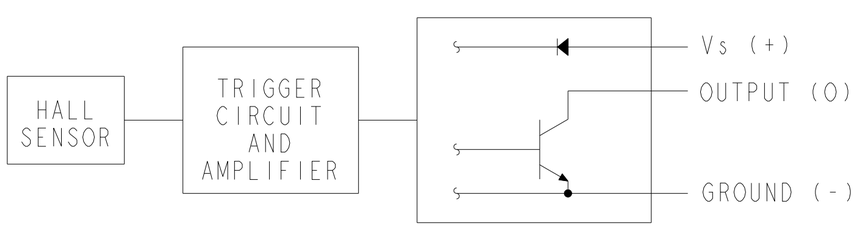
CHARACTERISTICS ARE AT Vs=3.0 TO 24.0 VOLTS WITH 20 mA LOAD WITH (4) (7)
TA=-40°C TO +150°C UNLESS OTHERWISE NOTED

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	VSUPPLY=5V AT 25°C		4.0	6.0	mA
	VSUPPLY=3V AT 25°C		3.5	5.0	
				8.0	
OUTPUT CURRENT				20.0	mA
Vsat	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 RθJA	SINGLE LAYER, SINGLE SIDED PCB		303		°C/W
OPERATE		5	50	120	GAUSS
RELEASE		-120	-50	-5	GAUSS
DIFFERENTIAL		50	100	170	GAUSS
OPERATING TEMP		-40		+150	°C
STORAGE TEMP		-40		+150	°C

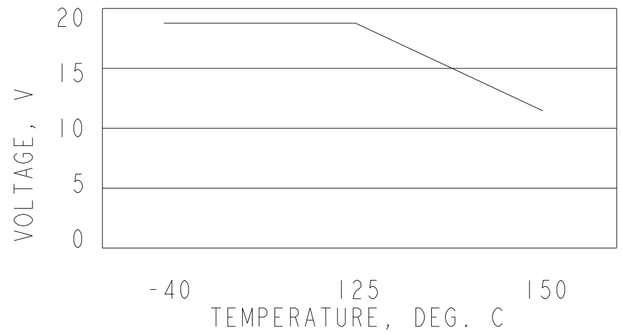
ABSOLUTE MAXIMUM RATINGS (2)

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

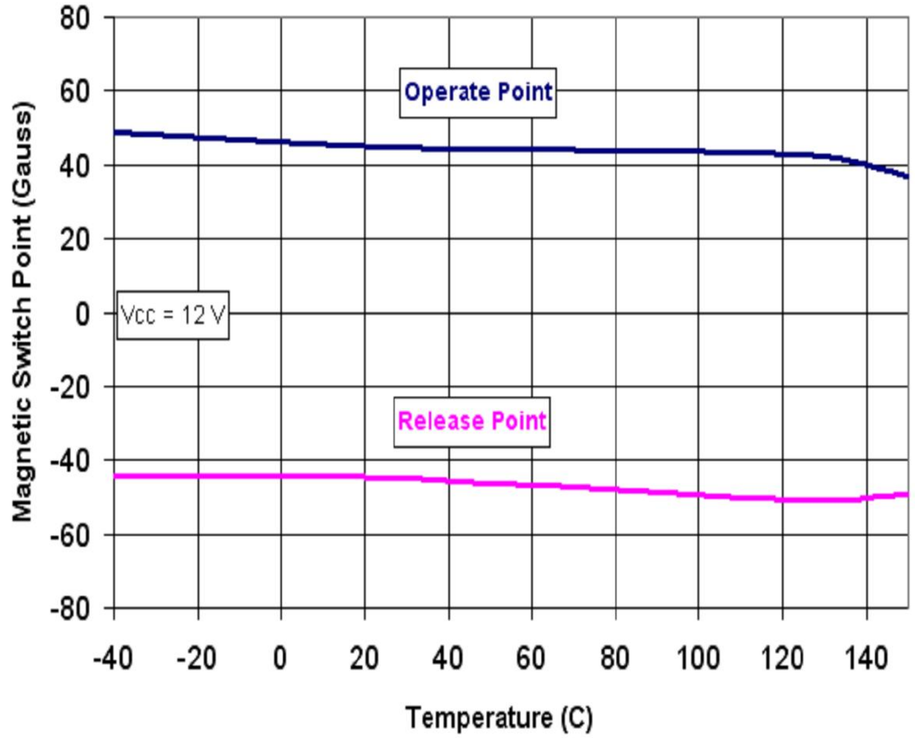
BLOCK DIAGRAM CURRENT SINKING OUTPUT



RATED SUPPLY VOLTAGE



Typical SS361RT Magnetic Performance vs Temperature



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SIZE	TYPE	CAGE_CODE	DRAWING NAME	REV
C	1	-	SS361RT	E

SCALE NONE SHEET 3 OF 3