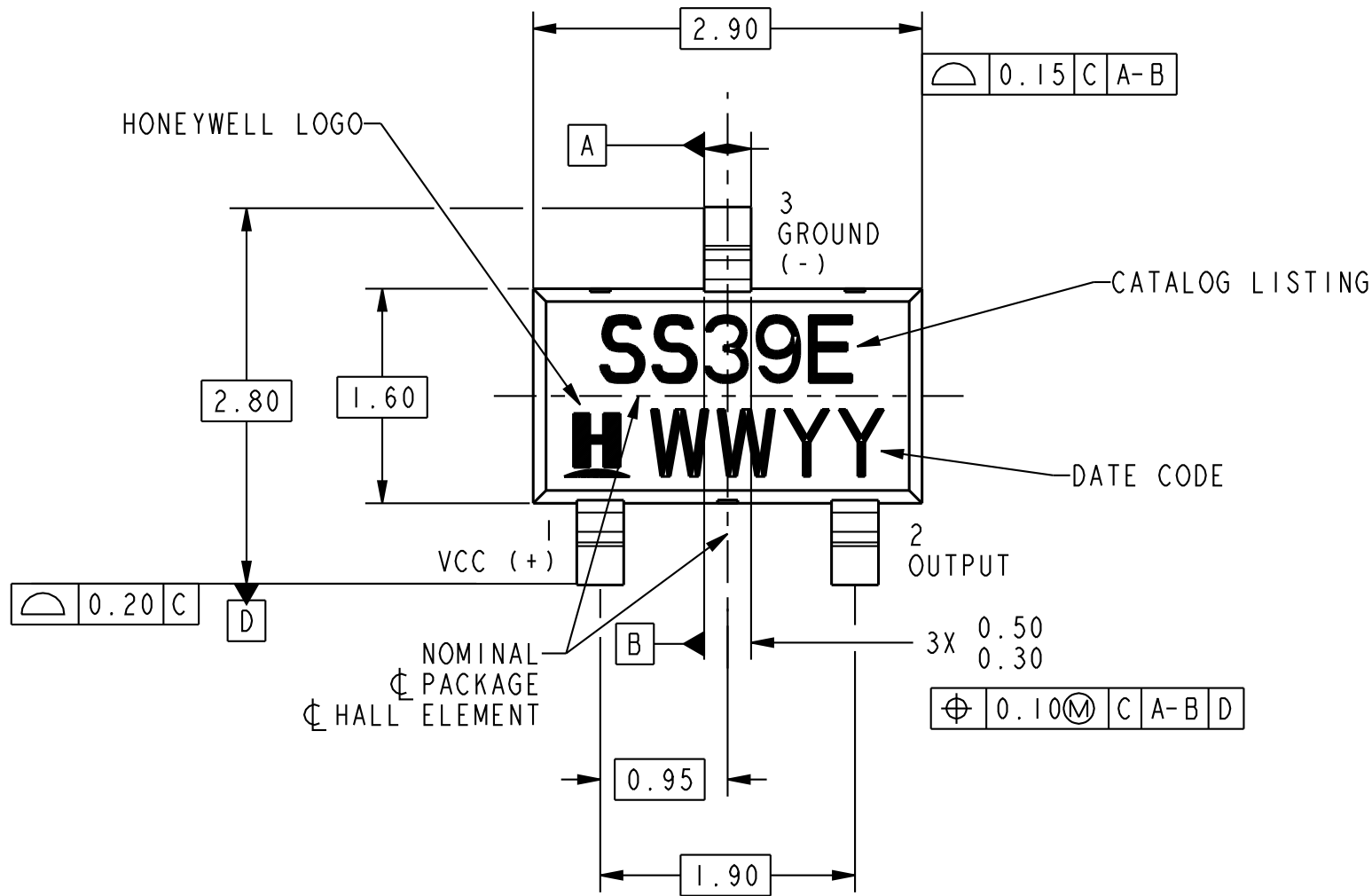
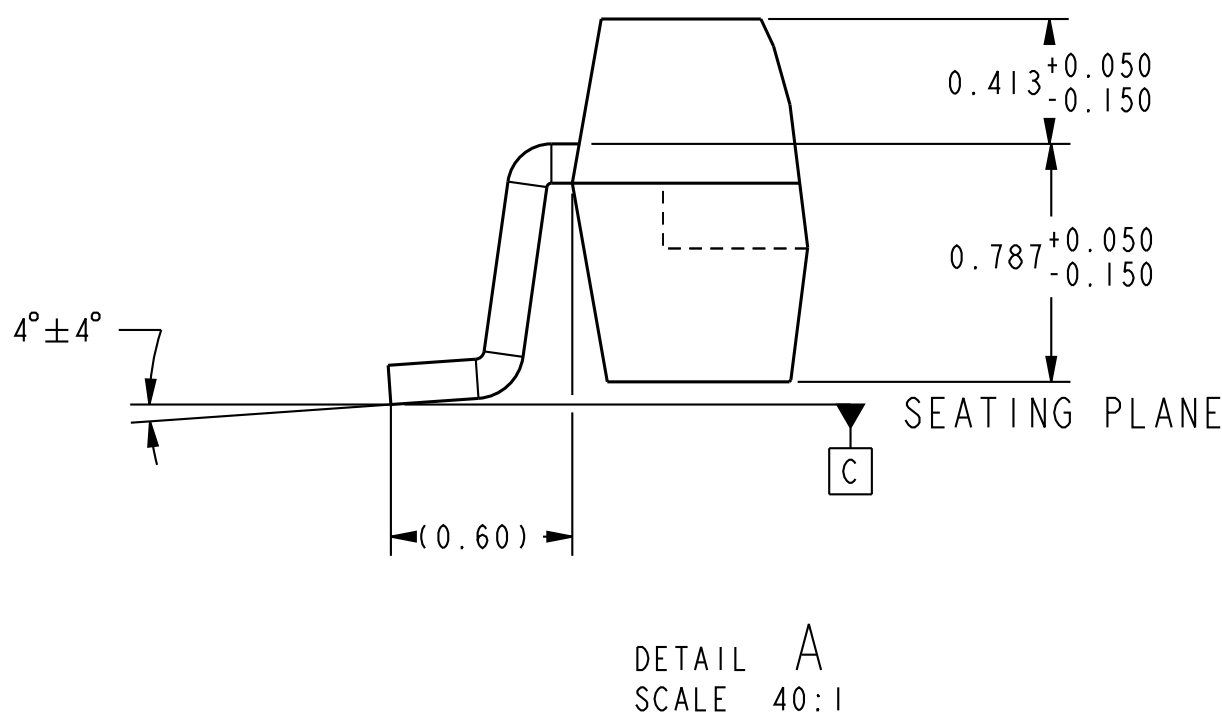
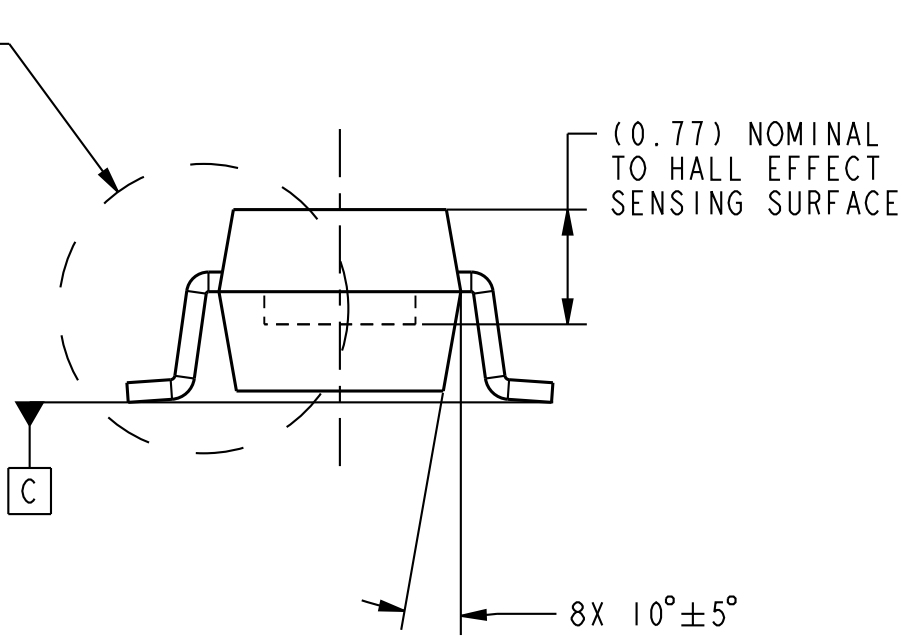
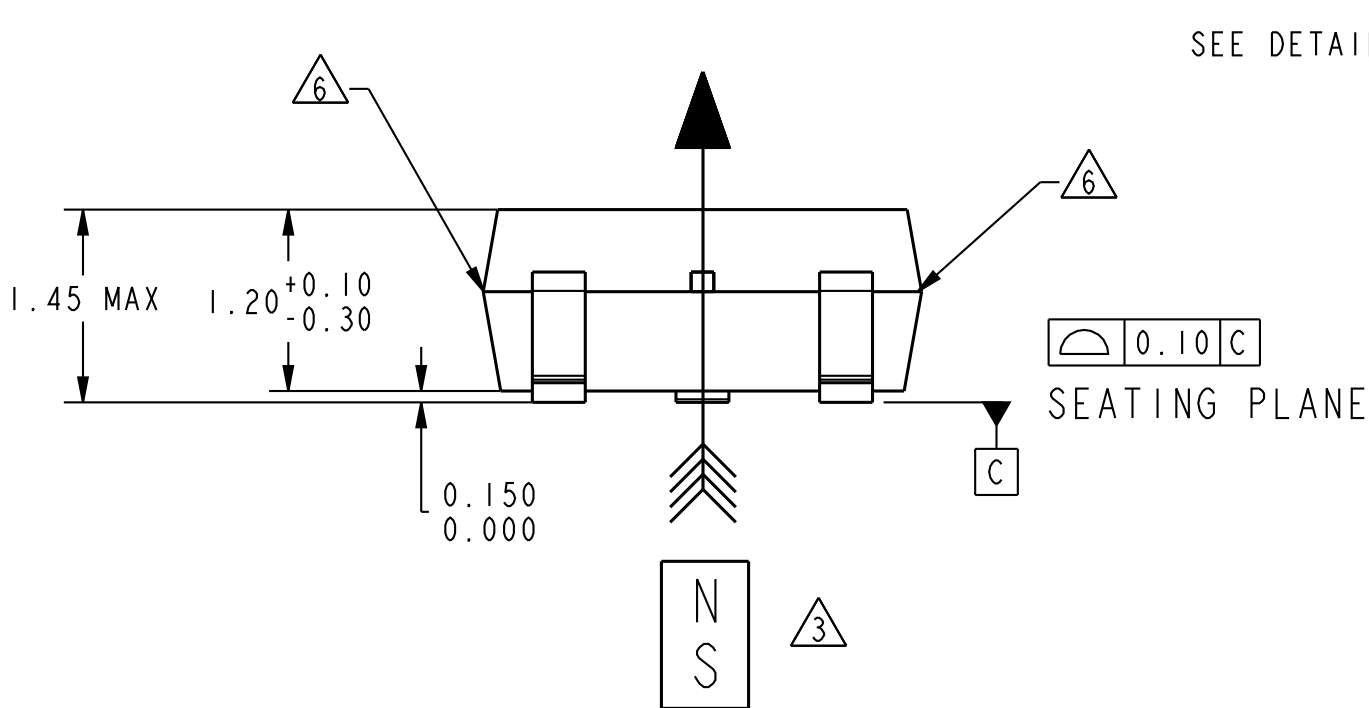


HONEYWELL PART NUMBER
SS39ET

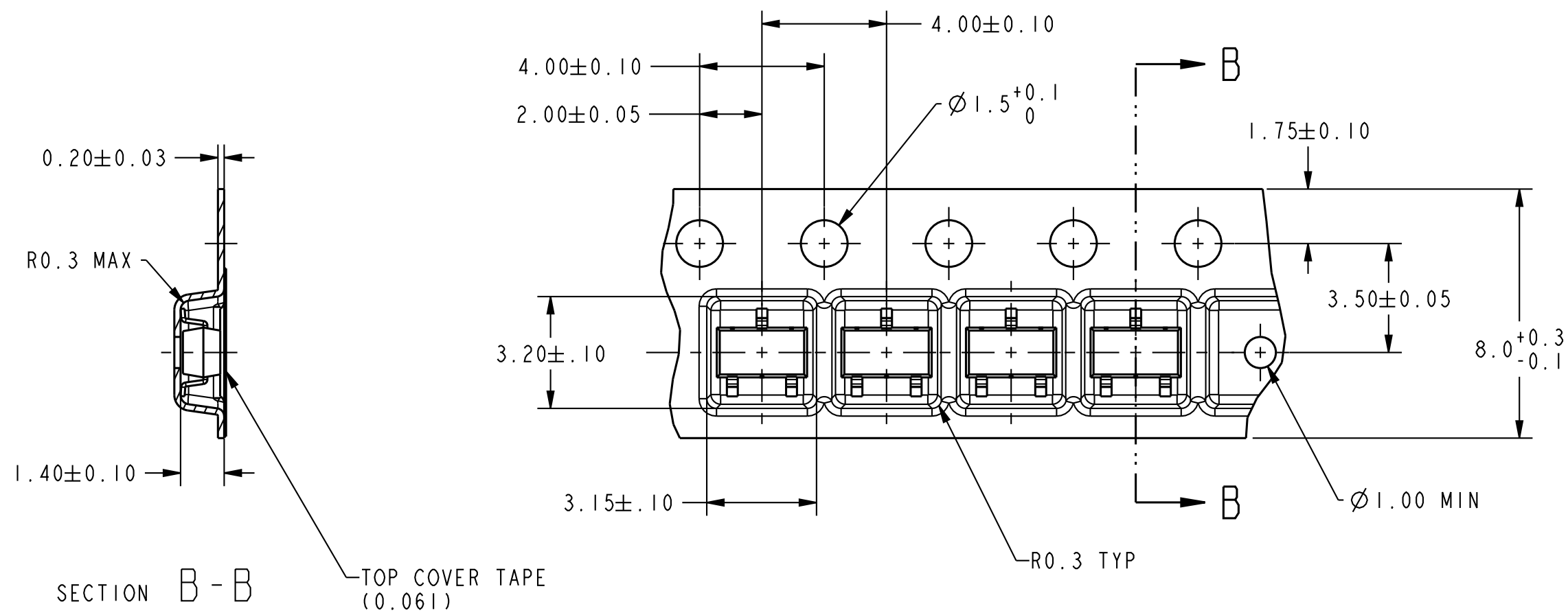
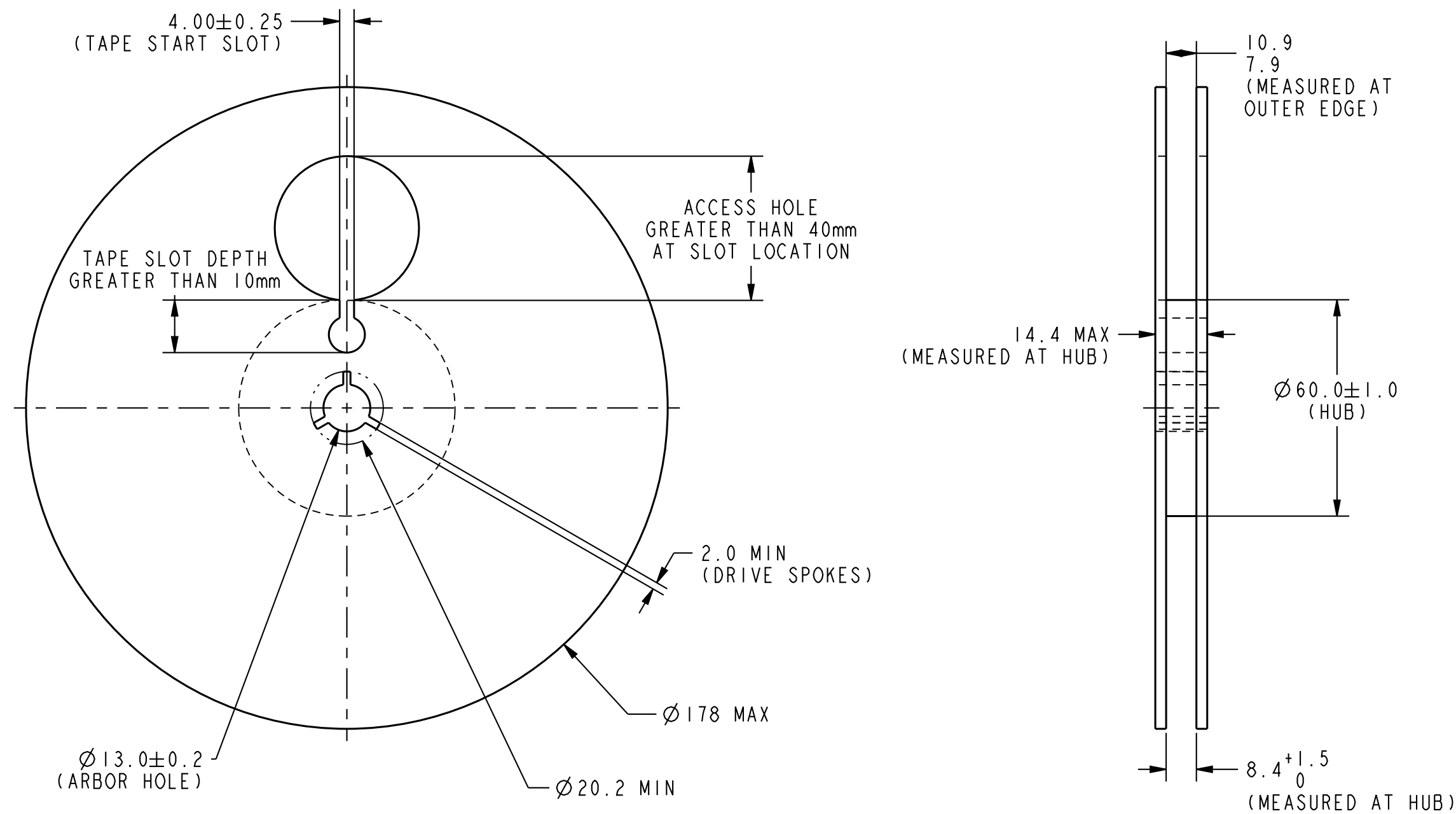
REV	DOCUMENT	CHANGED BY	CHECK
C	0088198	RS 04APR12	CMH



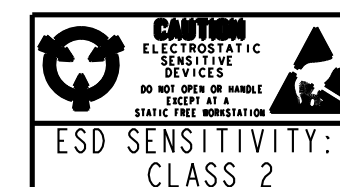
- NOTES
- SOLDERING INSTRUCTIONS: EXPOSURE TO HIGH TEMPERATURES SHOULD BE KEPT AT A MINIMUM HONEYWELL RECOMMENDS AN INFRARED REFLOW PROCESS WITH PEAK TEMPERATURES NOT EXCEEDING 245°C FOR 10 SECONDS MAXIMUM. DO NOT WAVE SOLDER THIS PRODUCT, AS THIS PROCESS MAY NEGATIVELY AFFECT THE SENSOR'S PERFORMANCE 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 IS IN THE DIRECTION SHOWN (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF MAGNET IS THE NORTH POLE 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
 -



DESIGN UNITS: MM TOLERANCES UNLESS NOTED:	DRAWN JLH 20 JUN 11	Honeywell		
NO PLACES .X ± 1.000 ONE PLACE .XX ± 0.40 TWO PLACE .XXX ± 0.150 THREE PLACE .XXX ± 0.005 ANGLES X ± 3.0°	CHECK JLH 20 JUN 11			
THIRD ANGLE PROJECTION		TITLE SOLID STATE SENSOR, IC		
		SIZE C	TYPE I	REV C
		CAGE CODE -	DRAWING NAME SS39ET	
		SCALE NONE	SHEET 1 OF 3	

TAPE AND REEL DIMENSIONS $\triangle 5$ 

DIRECTION OF FEED FROM REEL



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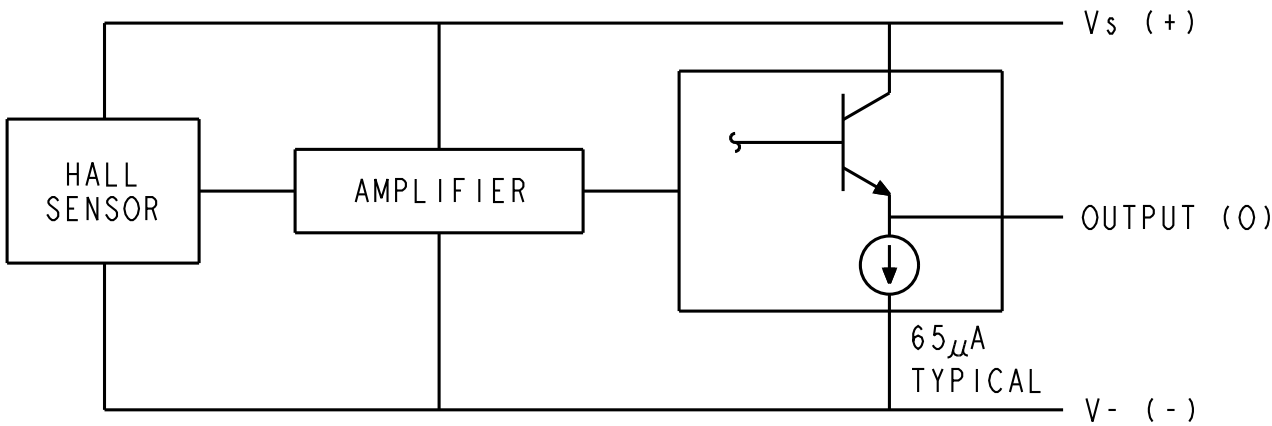
Honeywell

SIZE	TYPE	CAGE CODE	DRAWING NAME	REV
C	I	-	SS39ET	C
SCALE	NONE		SHEET	2 OF 3

CHARACTERISTICS ARE AT $V_s=5.00$ WITH 10K OUTPUT TO MINUS $\triangle$ 4
WITH $T_A=-40^{\circ}\text{C}$ TO $+85^{\circ}\text{C}$ UNLESS OTHERWISE SPECIFIED

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SENSITIVITY	$T_A = 25^{\circ}\text{C}$	1.0	1.4	1.75	mV/GAUSS
NULL	$T_A = 25^{\circ}\text{C}$	2.25	2.50	2.75	VOLTS
SUPPLY CURRENT			6	10.	mA
OUTPUT CURRENT SOURCE	$V_s > 3.0$	1	1.5		mA
RESPONSE TIME			3		μS
OUTPUT VOLTAGE SWING VOM - VOM +	-B APPLIED	1.05	.95		VOLTS
	+B APPLIED	$V_s - 1.05$	$V_s - .95$		VOLTS
B LIMITS FOR LINEAR OPERATION	-B MAX	-650	-1000		GAUSS
	+B MAX	+650	+1000		GAUSS
V_{null} DRIFT	$B = 0, T_A = -40^{\circ}\text{C}$ TO $+85^{\circ}\text{C}$	-.10		+.10	% / $^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = +25^{\circ}\text{C}$ TO $+85^{\circ}\text{C}$	-.15		+.05	% / $^{\circ}\text{C}$
SENSITIVITY DRIFT	$T_A = -40^{\circ}\text{C}$ TO $+25^{\circ}\text{C}$	-.04		+.185	% / $^{\circ}\text{C}$
LINEARITY	$B = -650$ TO $+650$		-.7		% OF SPAN
SUPPLY VOLTAGE	-40°C TO $+100^{\circ}\text{C}$	2.7	5.0	6.5	VOLTS
OPERATING TEMP		-40		+100	$^{\circ}\text{C}$

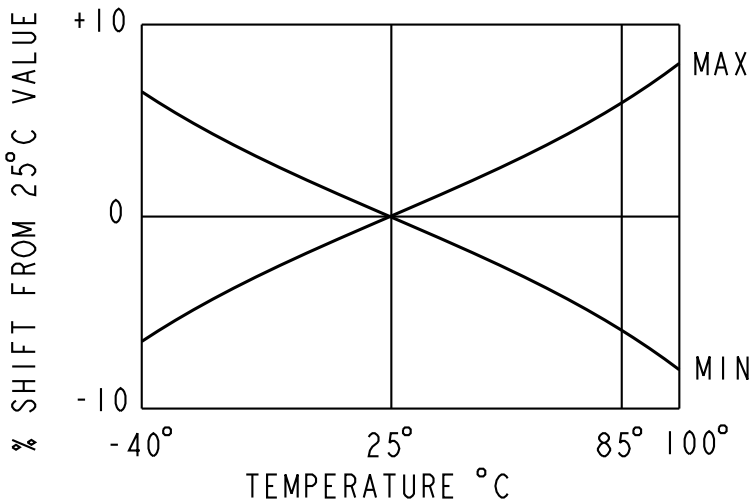
BLOCK DIAGRAM CURRENT SOURCING OUTPUT



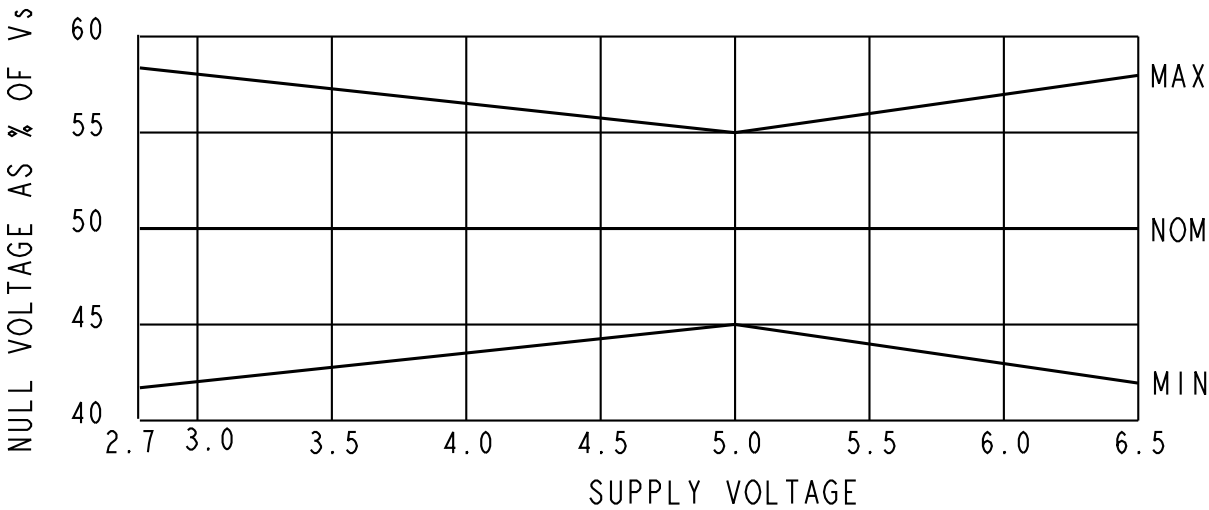
ABSOLUTE MAXIMUM CHARACTERISTICS $\triangle$ 2

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	MAX	UNITS
SUPPLY VOLTAGE	V_s		-0.5	8	V
OUTPUT VOLTAGE	V_{out}		-0.5	8	V
OUTPUT CURRENT	I_{out}	SOURCE		10	mA
TEMPERATURE	T_A	OPERATING	-40	100	$^{\circ}\text{C}$
	T_s	STORAGE ($V_s=0$)	-55	165	$^{\circ}\text{C}$

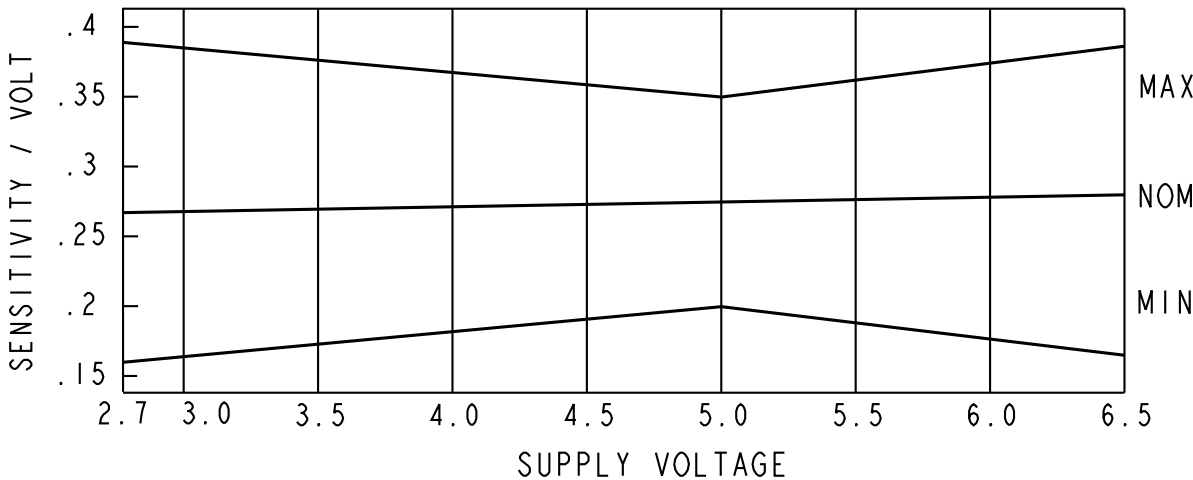
NULL SHIFT VERSUS TEMPERATURE



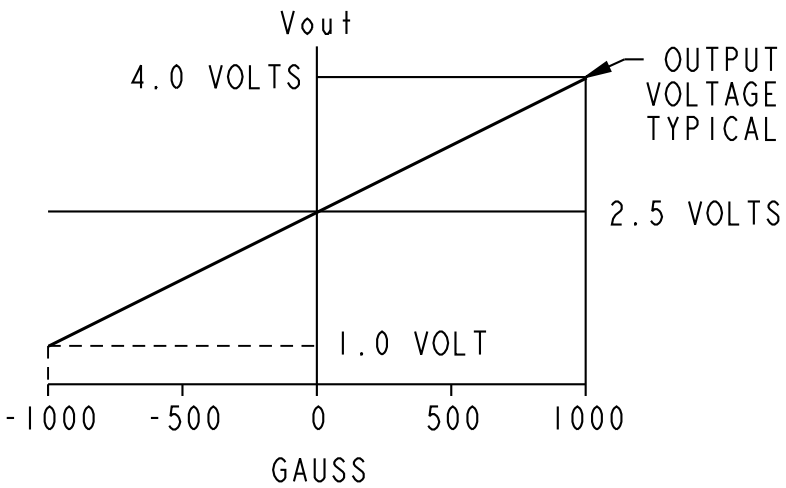
RATIO OF V_{null} TO V_s



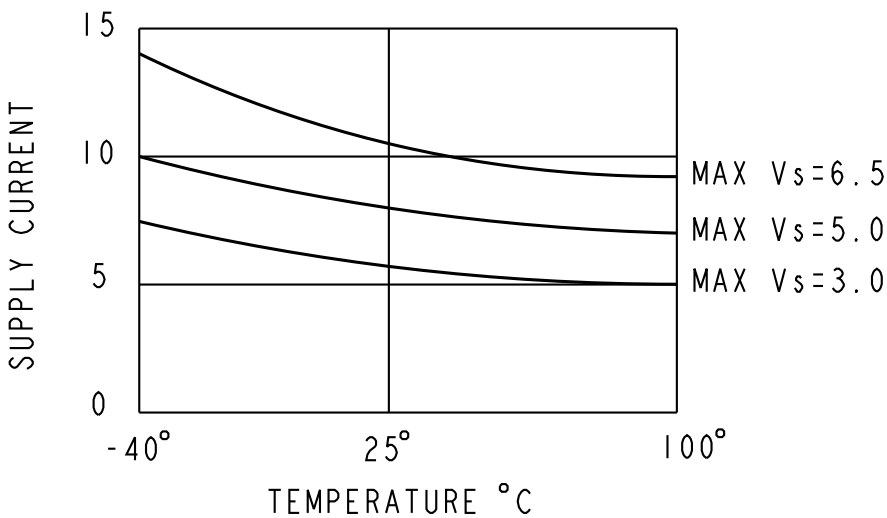
SENSITIVITY/V VERSUS V_s
(mV/Gauss/Volt)



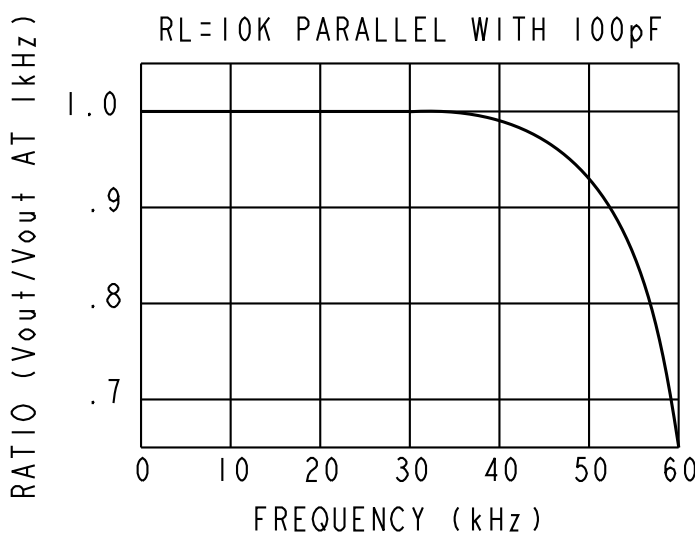
TRANSFER CHARACTERISTICS
AT $V_s=5.0$ VDC



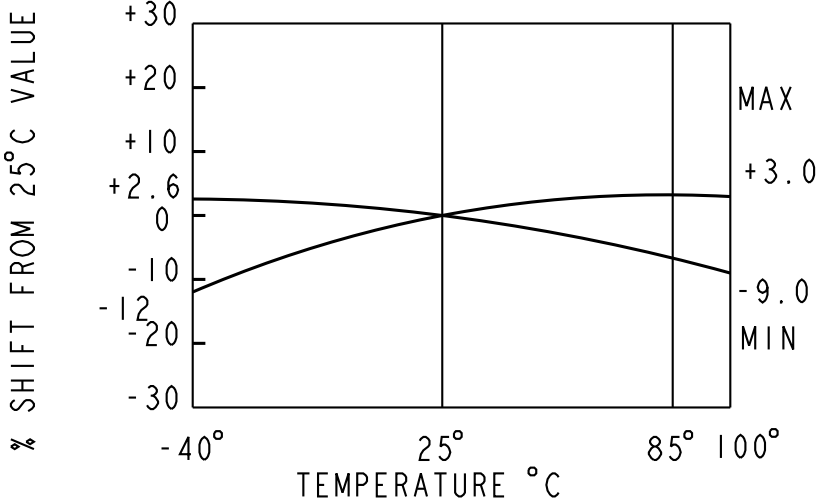
SUPPLY CURRENT
VERSUS TEMPERATURE



TYPICAL FREQUENCY RESPONSE



SENSITIVITY
SHIFT VERSUS TEMPERATURE



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SIZE	TYPE	CAGE CODE	DRAWING NAME	REV
C	I	-	SS39ET	C
SCALE	NONE		SHEET	3 OF 3