


DESIGN UNITS: MM				DRAWN		PRS		16APR10		<div>Honeywell</div>					
TOLERANCES UNLESS NOTED:				CHECK		JLH		16APR10							
NO PLACES X ± 1.000				THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL.											
ONE PLACE .X ± 0.40															
TWO PLACE .XX ± 0.150				TITLE LOW POWER SOLID STATE SENSOR, IC											
THREE PLACE .XXX ± 0.005															
ANGLES X ± 3.0°				INTERPRET PER ASME Y14.5M-1994		SIZE		TYPE		CAGE CODE		DRAWING NAME		REV	
THIRD ANGLE PROJECTION 				OTHER HONEYWELL ENGINEERING		A2		I		-		SL353HT		C	
				STANDARDS MAY APPLY		3D		SCALE		NONE		SHEET		I OF 4	

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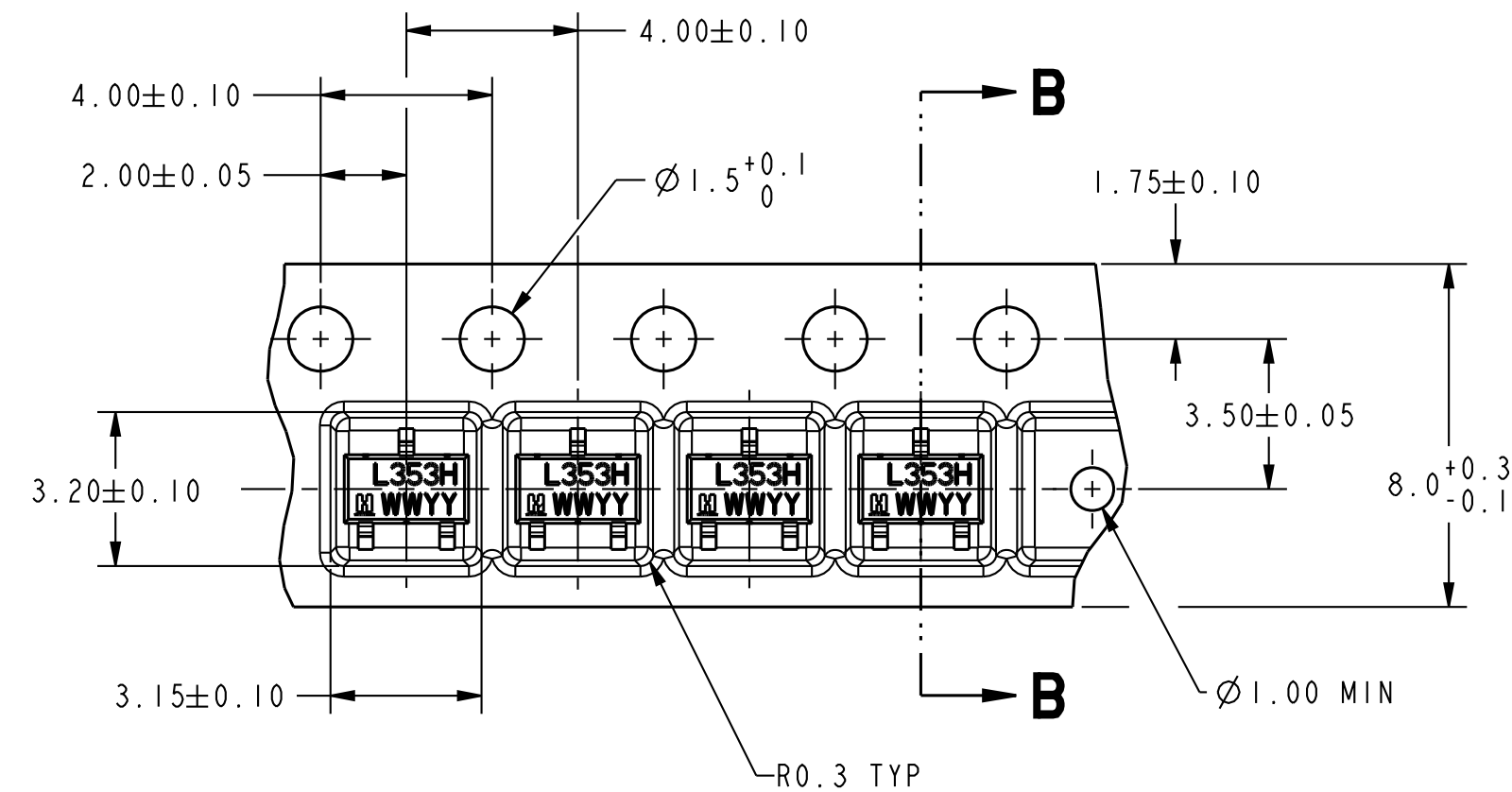
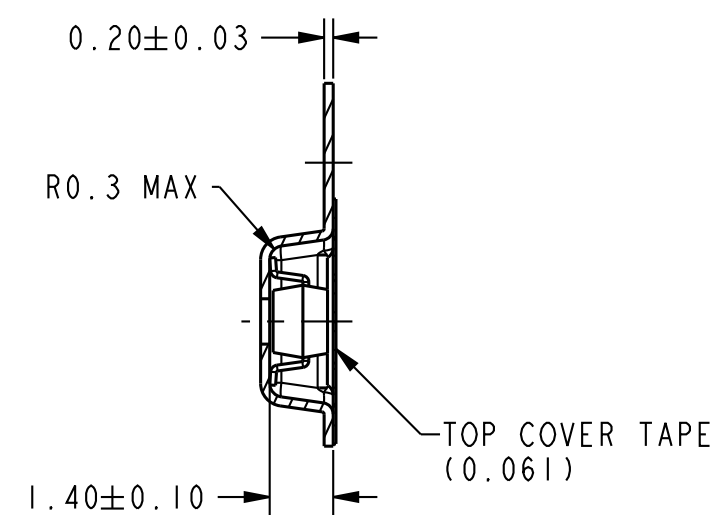
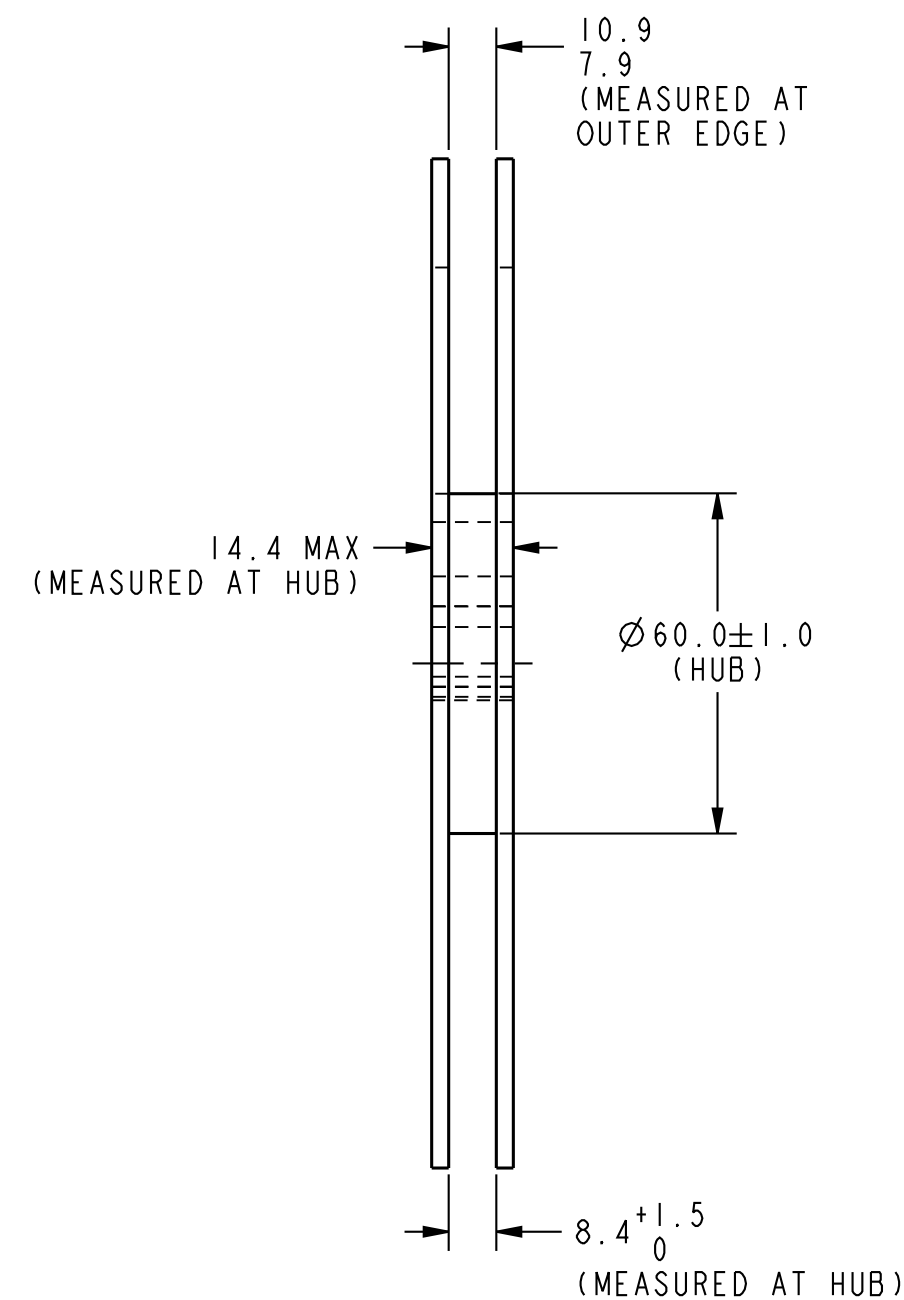
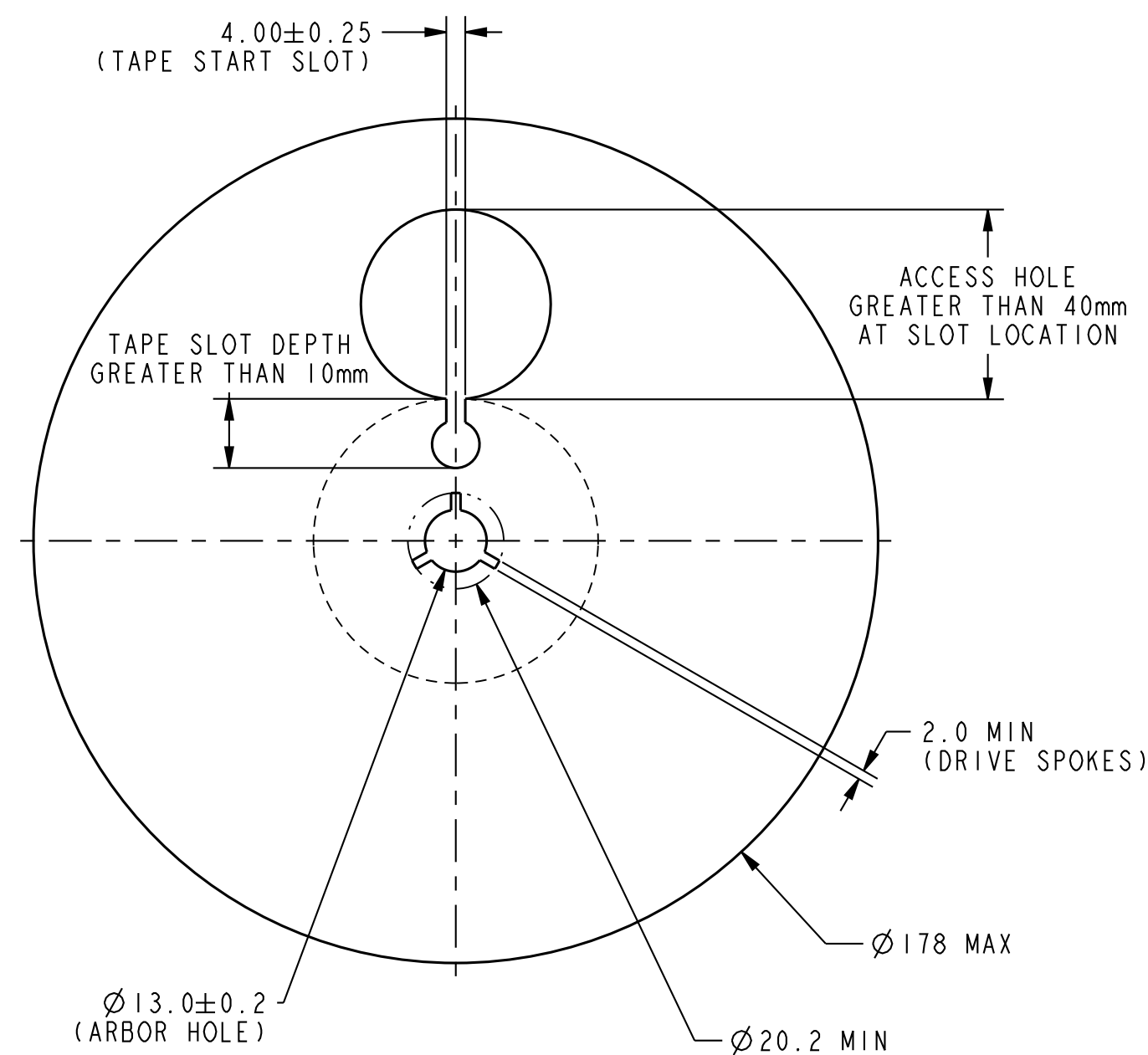
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TAPE AND REEL DIMENSIONS 5

DIRECTION OF FEED FROM REEL



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Honeywell

SIZE	TYPE	CAGE CODE	DRAWING NAME	REV
A2	I	-	SL353HT	C
SCALE	NONE		SHEET	2 OF 4

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MAGNETIC CHARACTERISTICS (2.2V≤Vs≤5.5V, -40°C≤Ta≤85°C)

CHARACTERISTICS	CONDITIONS	MIN	TYP	MAX	UNIT
OPERATE (POSITIVE)		20	60	110	GAUSS
OPERATE (NEGATIVE)		-110	-60	-20	GAUSS
RELEASE (POSITIVE)		5	45	95	GAUSS
RELEASE (NEGATIVE)		-95	-45	-5	GAUSS
DIFFERENTIAL		3	15	60	GAUSS

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ELECTRICAL CHARACTERISTICS (2.2V≤Vs≤5.5V, -40°C≤Ta≤85°C UNLESS OTHERWISE SPECIFIED)

CHARACTERISTIC	CONDITIONS	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE		2.2	2.8	5.5	VOLTS
ACTIVE MODE CURRENT			2.5	9	mA
SLEEP MODE CURRENT			1.5	8	μA
AVERAGE CURRENT			0.33	2.3	mA
ACTIVE MODE TIME		3	6	30	μS
PERIOD		20	45	150	μS
DUTY CYCLE		5	13	25	%
VOL	LOAD CURRENT = 100μA		0.11	0.25	VOLTS
VOH	LOAD CURRENT = 100μA	Vs-0.25	Vs-0.11		VOLTS
OPERATING TEMPERATURE		-40		85	°C
STORAGE TEMPERATURE		-40		150	°C

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ELECTRICAL CHARACTERISTICS (Vs = 2.8V, Ta = 25°C)

CHARACTERISTIC	CONDITIONS	MIN	TYP	MAX	UNIT
ACTIVE MODE CURRENT			2.5	4	mA
SLEEP MODE CURRENT			1.5	2.5	μA
AVERAGE CURRENT			0.33	0.64	mA
ACTIVE MODE TIME		3	6	9	μS
PERIOD		30	45	80	μS
DUTY CYCLE		10	13	16	%
VOL	LOAD CURRENT = 100μA		0.11	0.15	VOLTS
VOH	LOAD CURRENT = 100μA	Vs-0.15	Vs-0.11		VOLTS

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ABSOLUTE MAXIMUM RATINGS

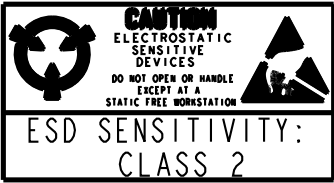
CHARACTERISTIC	CONDITIONS	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE		-0.5		6	VOLTS
OPERATING TEMPERATURE	AMBIENT	-40		150	°C
SOLDERING TEMPERATURE	APPLIED FOR < 10 SECONDS			265	°C
LOAD CURRENT				5	mA

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NOTE: "ABSOLUTE MAXIMUM RATINGS" ARE THOSE VALUES BEYOND WHICH THE SAFTEY OF THE DEVICE CANNOT BE GUARANTEED. THIS IS A STRESS RATING ONLY AND FUNCTIONAL OPERATION OF THE DEVICE AT THESE OR ANY OTHER CONDITIONS ABOVE THOSE INDICATED IN THE OPERATIONAL SECTIONS OF THIS SPECIFICATION IS NOT IMPLIED. EXPOSURE TO ABSOLUTE MAXIMUM RATINGS FOR EXTENDED PERIODS MAY AFFECT RELIABILITY.



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Honeywell					REV
SIZE	TYPE	CAGE CODE	DRAWING NAME		
A2	I	-	SL353HT	C	
SCALE		NONE		SHEET	3 OF 4

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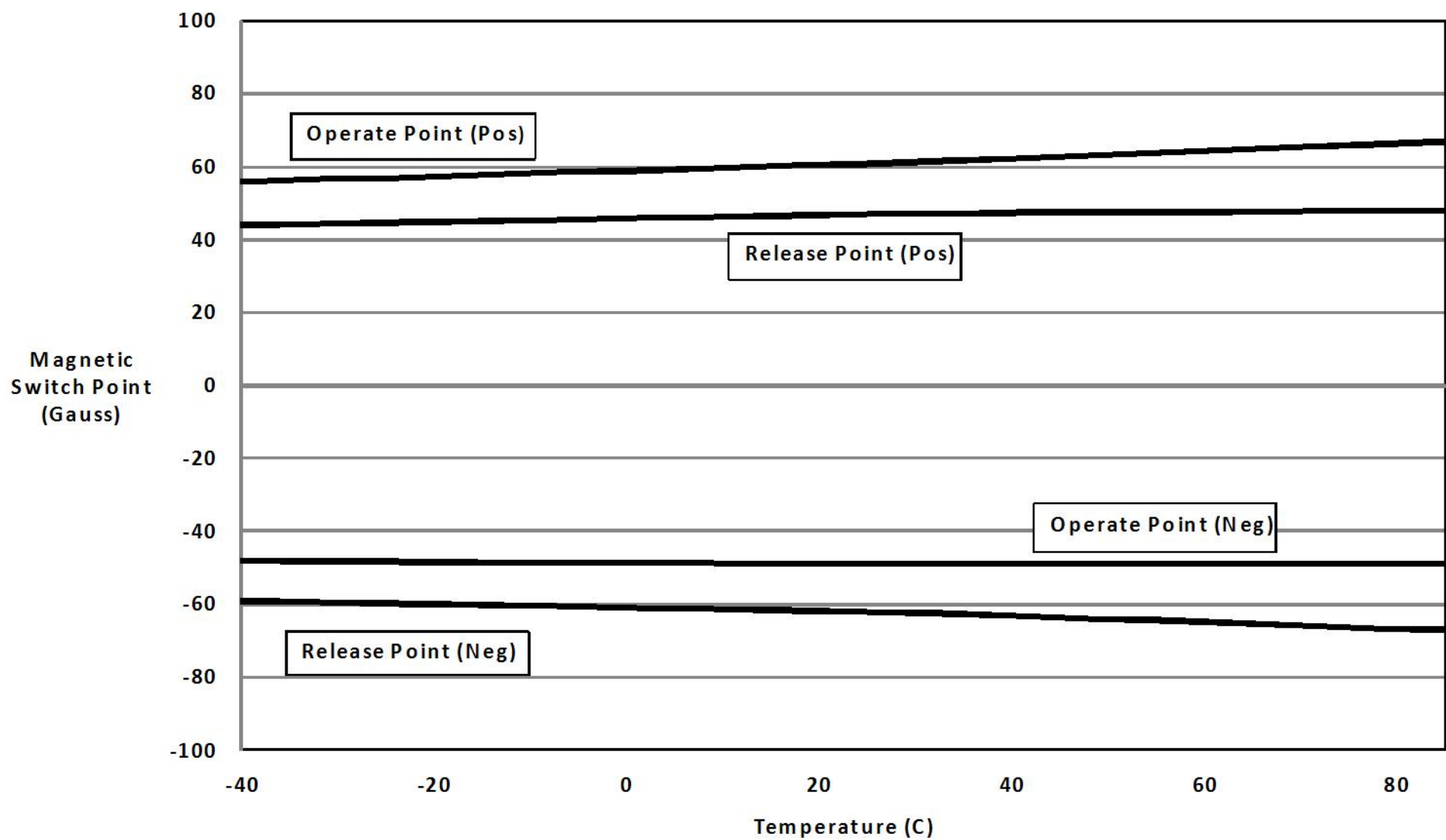
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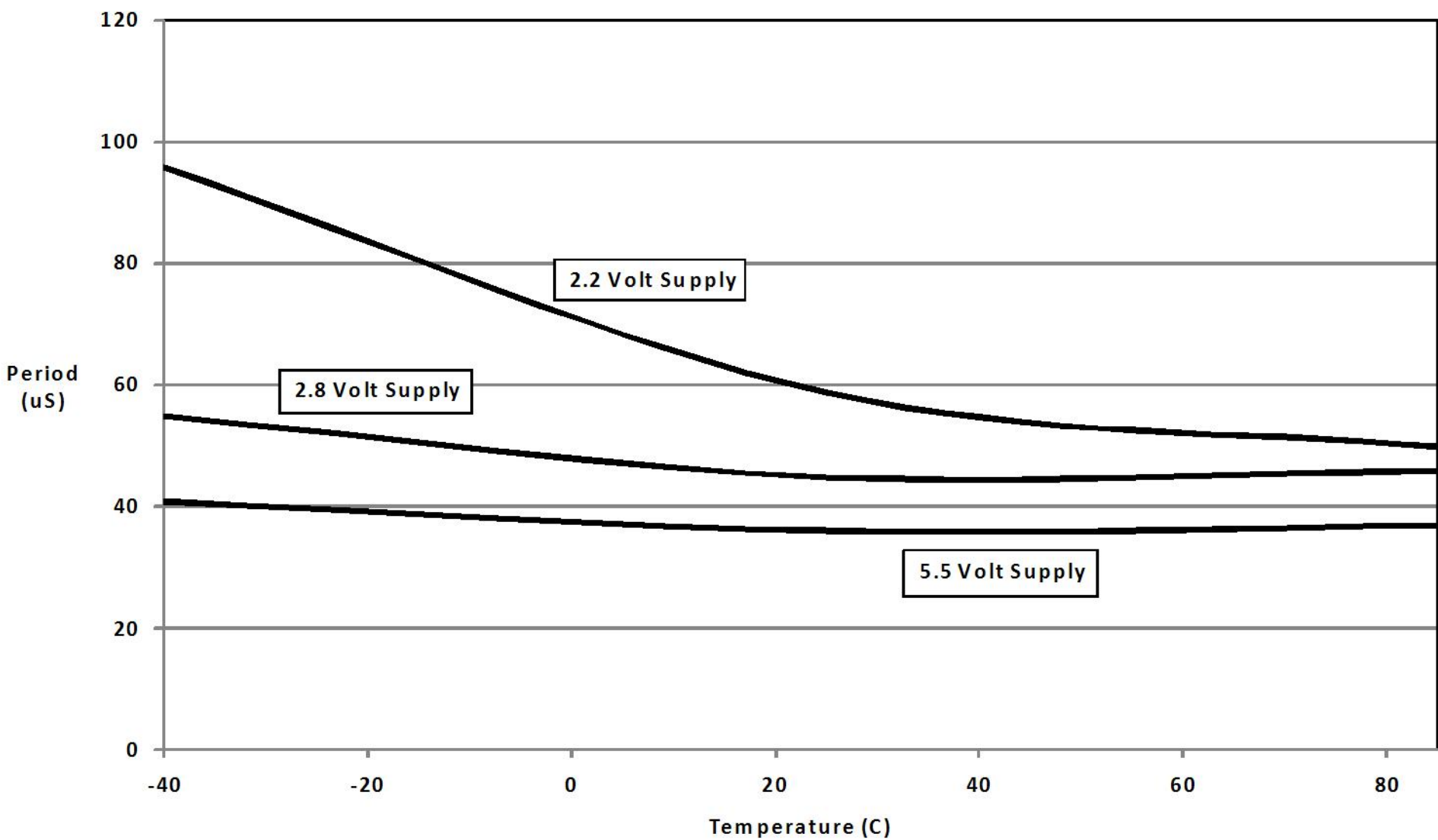
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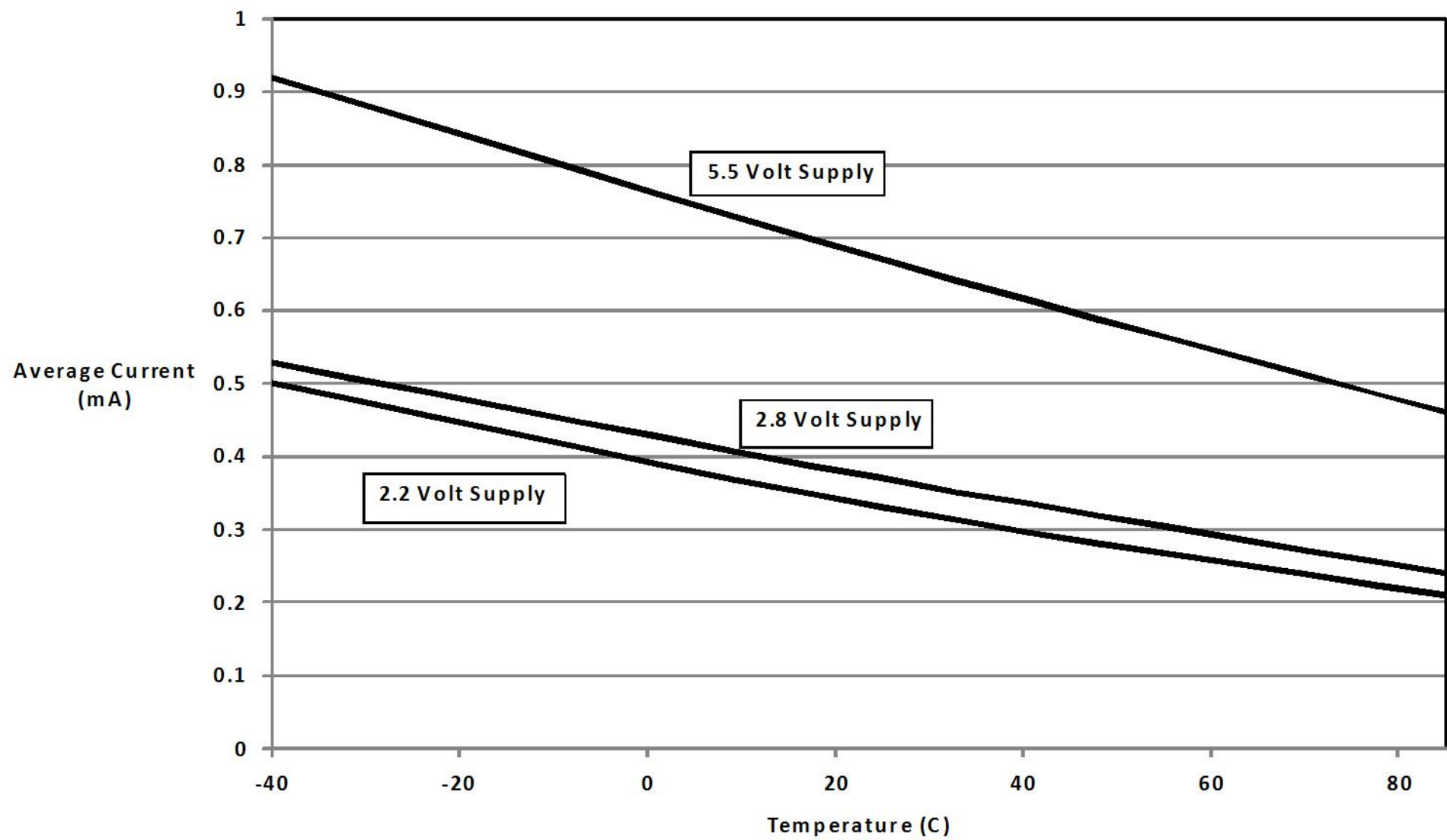
SS353HT Typical Magnetic Perform ance vs Temperature



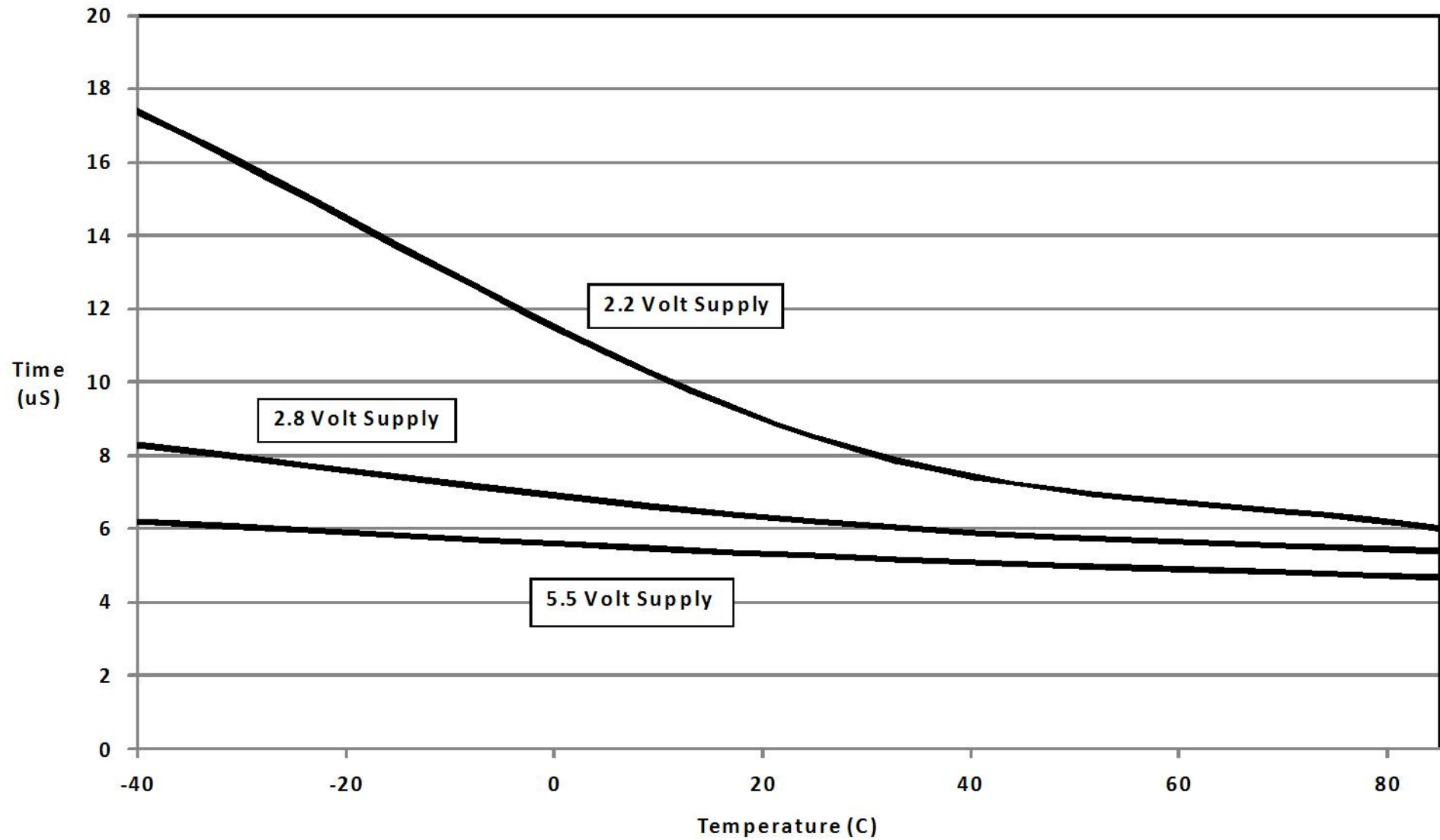
SL353HT Typical Period vs Temperature



SL353HT Typical Average Current vs Temperature



SL353HT Typical Active Mode Time vs Temperature



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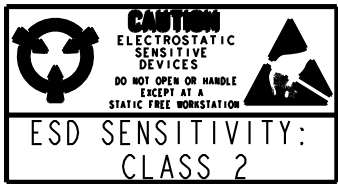
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SIZE	TYPE	CAGE CODE	DRAWING NAME	REV
A2	I	-	SL353HT	C
SCALE	NONE		SHEET	4 OF 4