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				REV D	OCUMENT	CHANGED BY	CHECK
TION ONLY				1	-	RGA 03JUL2	<u> </u>
CT TO CHANGE CONFIDENTIAL FOR	NOTES						
THIS DRAWING.	1 - SOLDERING INS						
		IMUM HONEYWELL RE PEAK TEMPERATURES			_	REFLOW	
		S MAXIMUM. DO NOT				•	
		EGATIVELY AFFECT SUBJECTING THESE					L
	WILL VOID HON 2 - ABSOLUTE MAXII	EYWELL'S WARRANTY			ודכ דוור		
		ITHSTAND WITHOUT					>
		ACTERISTICS ARE N TS ARE EXCEEDED N					
	AT ABSOLUTE M		UK WILL I		VICE NEV	ESSARILI OFERA	
	3 - THE MAGNETIC	FIELD STRENGTH (G TE (OPERATE AND R					
		ACTERISTICS. TO T					>
	MAGNETIC CARA MAGNETIC FIEL	CTERISTICS, THE S D	WITCH MUS	TBE	PLACED	IN A UNIFORM	
		WILL BE SUPPLIED	IN TAPE A	ND RE	EL FORM	PER EIA STD 48	31.
.09 CENTER OF IC	<u>5</u> - GATE VESTAGE TO .007	PERMITTED IN THES	E AREAS.	UNDER	FLUSH BF	REAKOUT LIMITE)
TER OF PACKAGE	<u>∕6</u> ∖- THESE HALL EF	FECT SENSORS MAY					
		IF POWERED UP WIT ZONE (APPLIED MAG					NFLI
	RECOMMENDS TH	AT THE APPLICATIO	N CIRCUIT	DESI	GNER ALI	OW 10 MICROSEC	CONDS
	AFTER SUPPLY STABILIZE	VOLTAGE HAS REACH	ED 5 VOLT	S FOR	THE OU	IPUT VOLTAGE TO)
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NALL EFFECT NSING SURFACE	f-		¥				
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$4^{\circ} \pm 4^{\circ}$	·		^{7.707} -0.15 	0			
		/ \	<u> </u>				
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°±5°	-(0.60)		;				
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		detail A scale 40:1					
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DESIGN UNITS: mm	DRAWN RG	6A -					
TOLERANCES UNLESS NOTED: NO PLACES X ±	1.000 CHECK -]		Hone	ywell	
ONE PLACE .X ± TWO PLACE .XX ±	0.40 AND IS THE P	OVERS A PROPRIETARY ITEM PROPERTY OF HONEYWELL. NOT TO BE COPIED OR USED	TITLE	<u> </u>	074		
THREE PLACE .XXX ± ANGLES X ±	0.005 WITHOUT THE PI	ERMISSION OF HONEYWELL.				SENSOR, IC	I REV
THIRD ANGLE PRO.	OTHER HONE	ER ASME Y14.5M-1994 YWELL ENGINEERING RDS MAY APPLY	A2 I	AUE COD		SS30F6T	
	Dr. Dr.	AVENGINEER		• 1	1		

SCALE 20:1

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SHEET

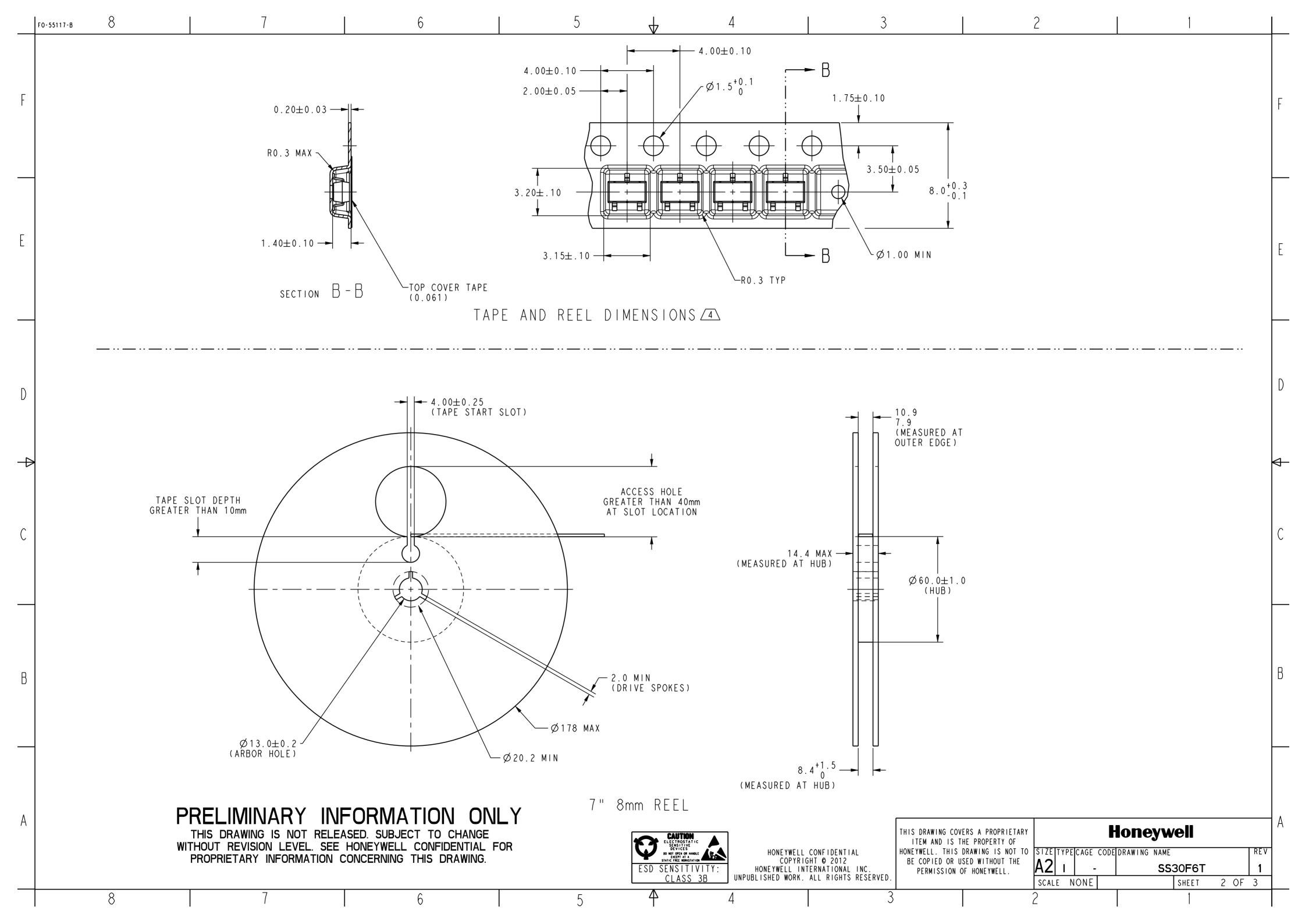
1 OF 3

Pro/ENGINEER

3

 $\bigcirc \Box$

4



OPERATING CHARACTERISTICS

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FO-55117-B

CHARACTERISTICS AT 4.5V \leq Vs \leq 60V, -40°C \leq T_A \leq 150°C, lo=15mA $\sqrt{3}\sqrt{6}$

UNLESS OTHERWISE SPECIFIED

CHARACTERISTIC	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
SUPPLY VOLTAGE	V s		4.5	24.0	60.0	VOLTS
SUPPLY CURRENT	l s			3.6	10.0	mA
OUTPUT VOLTAGE (ON)	V _{SAT}	l o = 1 5mA		0.215	0.600	VOLTS
OUTPUT LEAKAGE CURRENT	ГОН				10.0	μA
OUTPUT CURRENT LIMITATION	IO(SCP)	SHORT CIRCUIT PROTECTION ⁽¹⁾	40			mA
RISE TIME	t r	Τ _Α =25°C			1.5	μS
FALL TIME	[†] f	T _A =25°C			1.5	μS
ESD (HBM)	V _{ESD}	JEDEC JS-001-2014	+ / - 1 6			k V

6

(1) OUTPUT SHORT CIRCUIT PROTECTION

THE SENSOR TURNS OFF THE OUTPUT TRANSISTOR WHEN THE OUTPUT LOAD CURRENT EXCEEDS THE OUTPUT CURRENT LIMIT SPECIFIED IN THE OPERATING CHARACTERISTICS TABLE. THE OUTPUT REMAINS OFF UNTIL THE NEXT B>B_{OP} FIELD APPLICATION WHERE IT WILL RETRY TO TURN ON.

MAGNETIC CHARACTERISTICS

D

CHARACTERISTICS AT 4.5V \leq Vs \leq 60V, T_A=25°C $\sqrt{3}$

CHARACTERISTIC	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
OPERATE	B _{OP}	Τ _Α =25°C		25	65	GAUSS
RELEASE	B _{RP}	Τ _Α =25°C	- 6 5	- 2 5		GAUSS
HYSTERESIS	B _{HYS}		30			GAUSS

ABSOLUTE MAXIMUM RATING 2

CHARACTERISTIC	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
OPERATING TEMPERATURE	Т _А		- 40		150	°C
JUNCTION TEMPERATURE	Тј		- 40		165	°C
STORAGE TEMPERATURE	Τ _S		- 40		150	°C
THERMAL RESISTANCE	R _{oja}				233	°C/W
SUPPLY VOLTAGE	V s		-0.5		60	VOLTS
OUTPUT VOLTAGE	V٥		-0.5		60	VOLTS
OUTPUT CURRENT	١٥				NA ⁽²⁾	mA
MAGNETIC FLUX	- B				NO LIMIT	GAUSS

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⁽²⁾SEE OUTPUT CURRENT LIMITATION IN ELECTRICAL CHARACTERISTICS

PRELIMINARY INFORMATION ONLY

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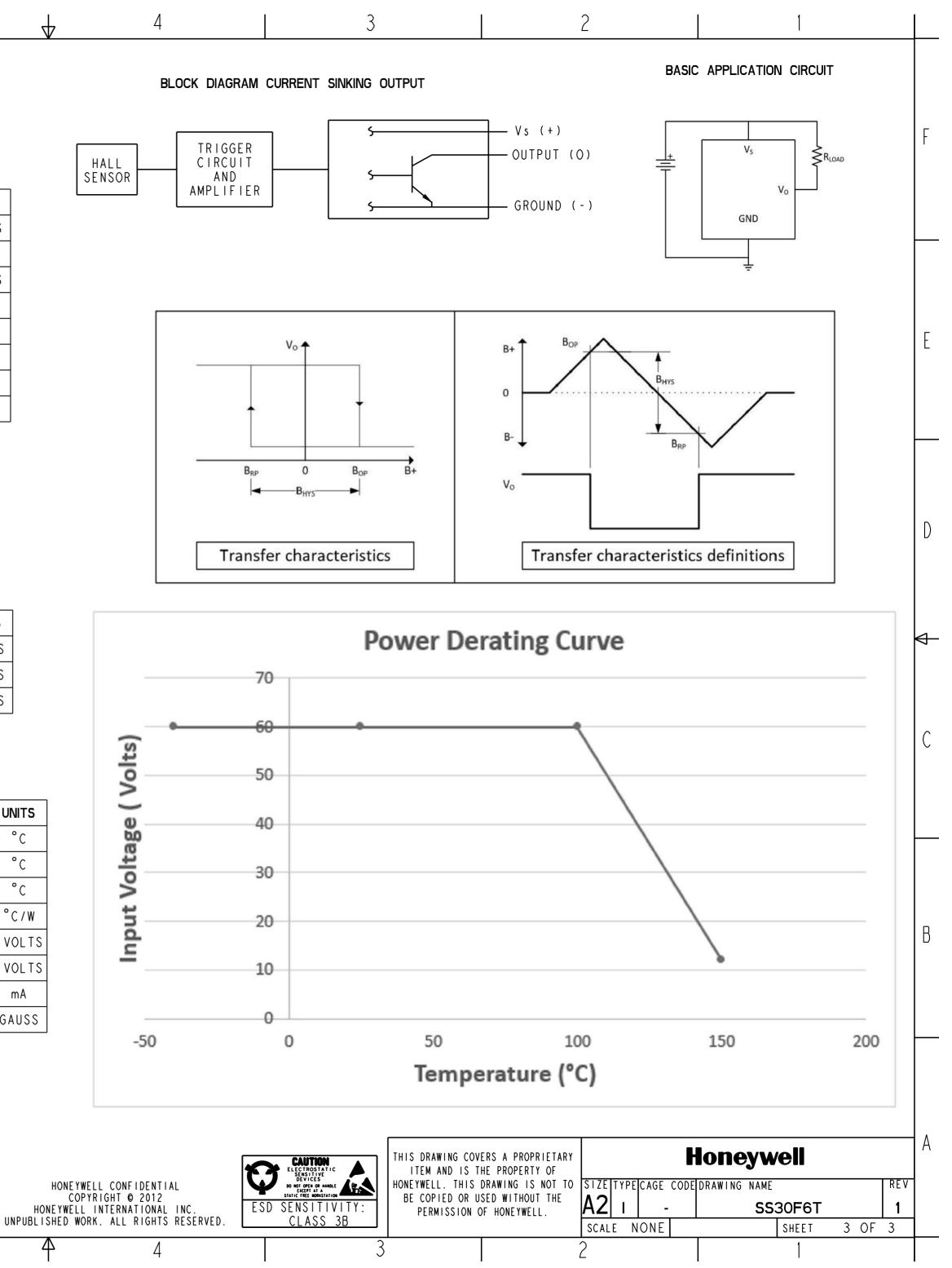
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