

	2		
		REV DOCUMENT CHANGED BY CHECK B 0068435 MH I9AUGIO RS	
NOTES	x)		
-	SOLDERING KEPT AT A PROCESS V	G INSTRUCTIONS: EXPOSURE TO HIGH TEMPERATURES SHOULD BE A MINIMUM HONEYWELL RECOMMENDS AN INFRARED REFLOW VITH PEAK TEMPERATURES NOT EXCEEDING 245°C	
Δ	PROCESS M RELIABILI WILL VOIE	AY NEGATIVELY AFFECT THE SENSOR'S PERFORMANCE AND TY. SUBJECTING THESE PRODUCTS TO WAVE SOLDERING HONEYWELL'S WARRANTY MAXIMUM RATINGS ARE THE EXTREME LIMITS THE DEVICE WILL	D
	MOMENTARI MAGNETIC AND/OR CL	LY WITHSTAND WITHOUT DAMAGE TO THE DEVICE. ELECTRICAL AND CHARACTERISTICS ARE NOT GUARANTEED IF THE SPECIFIED VOLTAGE JRRENTS ARE EXCEEDED NOR WILL THE DEVICE NECESSARILY OPERATE	
3	THE MAGNE AND LOCAT OF THE EX	TTIC FLUX USED TO OPERATE THE SWITCH MUST BE IN THE DIRECTION TON SHOWN. (THIS ASSUMES THE CONVENTION THAT THE DIRECTION (TERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE	
4	THE MAGNE TO CHANGE MAGNETIC	TIC FIELD STRENGTH (GAUSS) REQUIRED TO CAUSE THE SWITCH STATE (OPERATE AND RELEASE) WILL BE AS SPECIFIED IN THE CHARACTERISTICS. TO TEST THE SWITCH AGAINST THE SPECIFIED	
5 6	MAGNETIC MAGNETIC THIS PROE GATE VEST	FIELD DUCT WILL BE SUPPLIED IN TAPE AND REEL FORM PER EIA STD 481. AGE PERMITTED IN THESE AREAS. UNDERFLUSH BREAKOUT LIMITED	
<u>_7</u>	THESE HAL OR OFF ST DIFFERENT	L EFFECT SENSORS MAY HAVE AN INITIAL OUTPUT IN EITHER THE ON TATE IF POWERED UP WITH AN APPLIED MAGNETIC FIELD IN THE TAL ZONE (APPLIED MAGNETIC FIELD > Brp AND < Bop). HONEYWELL	С
	AFTER SUF STABILIZE B> MAX OF	PLY VOLTAGE HAS REACHED 5 VOLTS FOR THE OUTPUT VOLTAGE TO	
<u>, </u>	R< MIN KE	LEASE GAUSS	
			\leftarrow
0.77)	NOMINAL	0.4 3+0.050	
o hal Sensin	G SURFACE		В
		(0, 60) -	
$0^{\circ} \pm 5^{\circ}$		detail A	
		DRAWN SSK 04FEBIO	А
ED: ± ±	I.000 0.40	CHECK JLH 04FEBIO THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED THIS DRAWING IS NOT TO BE COPIED OR USED	
± ± ± PROJEC	0.150 0.005 3.0° TION	WITHOUT THE PERMISSION OF HONEYWELL. SULID STATE SENSUR, IC INTERPRET PER ASME YI4.5M-1994 SIZE TYPE CAGE_CODE DRAWING NAME REV OTHER HONEYWELL ENGINEERING CIII SIZE TYPE CAGE_CODE DRAWING NAME REV	
	2	Pro/ENGINEER 3D SCALE NONE SHEET I OF 4	



PARAMETER	CONDITIONS	MIN	Түр	ΜΔΧ		BLOCK	DIAGRAM CURREN	IT SINKING	OUTPUT		
SUPPLY VOLTAGE	- 40° C TO 125° C 150° C	3.0 3.0		24.0 12.0	- VOLTS		D FROMME CONNEL				
SUPPLY CURRENT	VSUPPLY=5V AT 25°C VSUPPLY=3V AT 25°C		4.0 3.5	6.0 5.0 8.0	mA	H A L L S E N S O R	TRIGGER CIRCUIT AND AMPLIFIER	ς		— Vs (+) — OUTPUT ((())
OUTPUT CURRENT				20.0	mA			ς	•	— GROUND	(–)
V s a t	<u>/8</u>			0.4	VOLTS						
OUTPUT LEAKAGE				10.0	μA						
RISE TIME	2 5° C			1.5	μS						
FALL TIME	2 5° C			Ι.5	μS						
THERMAL Resistance r o ja	SINGLE LAYER, SINGLE SIDED PCB		303		°C/W						
OPERATE						ABSOLUTE MAXIMUM RATI	NGS 🖄				
SS34IRT		35	75	135	GAUSS						
SS34IRT SS343RT		35 45	75 135	1 3 5 2 0 5	GAUSS GAUSS	P A R A M E T E R	CONDITIONS	MIN	ТҮР	MAX	UNI
S S 3 4 I R T S S 3 4 3 R T S S 3 4 9 R T		35 45 240	75 135 305	35 205 460	GAUSS GAUSS GAUSS	PARAMETER SUPPLY VOLTAGE	CONDITIONS	M I N - 28.0	ΤΥΡ	MAX 28.0	UNI VOL
SS34IRT SS343RT SS349RT		35 45 240	75 135 305	135 205 460	GAUSS GAUSS GAUSS	PARAMETER SUPPLY VOLTAGE APPLIED OUTPUT VOLTAGE	CONDITIONS	MIN -28.0 -0.5	ΤΥΡ	MAX 28.0 28.0	UNI VOL VOL
SS34IRT SS343RT SS349RT RELEASE		35 45 240	75 135 305	135 205 460	GAUSS GAUSS GAUSS	PARAMETER SUPPLY VOLTAGE APPLIED OUTPUT VOLTAGE OUTPUT CURRENT	CONDITIONS	MIN -28.0 -0.5	T Y P	MAX 28.0 28.0 20.0	UNI VOL VOL mA
SS34IRT SS343RT SS349RT RELEASE SS34IRT		35 45 240	75 135 305 35 85	135 205 460 120	GAUSS GAUSS GAUSS GAUSS	PARAMETER SUPPLY VOLTAGE APPLIED OUTPUT VOLTAGE OUTPUT CURRENT MAGNETIC FLUX	CONDITIONS	MIN -28.0 -0.5	T Y P	MAX 28.0 28.0 20.0 NO LIMIT	UNI VOL VOL mA GAU
SS34IRT SS343RT SS349RT RELEASE SS34IRT SS343RT		35 45 240 10 40	75 135 305 35 85 225	35 205 460 20 20 80 270	GAUSS GAUSS GAUSS GAUSS GAUSS	PARAMETER SUPPLY VOLTAGE APPLIED OUTPUT VOLTAGE OUTPUT CURRENT MAGNETIC FLUX	CONDITIONS	MIN -28.0 -0.5	TYP	MAX 28.0 28.0 20.0 NO LIMIT	UNI VOL VOL MA GAUS
SS34IRT SS343RT SS349RT RELEASE SS34IRT SS343RT SS349RT		35 45 240 10 40 135	75 135 305 35 85 225	35 205 460 20 80 370	GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS	PARAMETER SUPPLY VOLTAGE APPLIED OUTPUT VOLTAGE OUTPUT CURRENT MAGNETIC FLUX	CONDITIONS	MIN -28.0 -0.5	TYP	MAX 28.0 28.0 20.0 NO LIMIT	UNI VOL VOL MA GAU
SS34IRT SS343RT SS349RT RELEASE SS34IRT SS343RT SS349RT		35 45 240 10 40 135	75 135 305 35 85 225	35 205 460 20 20 80 370	GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS	PARAMETER SUPPLY VOLTAGE APPLIED OUTPUT VOLTAGE OUTPUT CURRENT MAGNETIC FLUX	CONDITIONS	MIN -28.0 -0.5	TYP	MAX 28.0 28.0 20.0 NO LIMIT	UNI VOL WOL MA GAUS
SS34IRT SS343RT SS349RT RELEASE SS34IRT SS343RT SS349RT DIFFERENTIAL SS34IRT		35 45 240 10 40 135 5	75 135 305 35 85 225 40	35 205 460 20 120 180 370 80 80	GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS	PARAMETER SUPPLY VOLTAGE APPLIED OUTPUT VOLTAGE OUTPUT CURRENT MAGNETIC FLUX CATALOG LISTING	CONDITIONS	MIN -28.0 -0.5	CATALC	MAX 28.0 28.0 20.0 NO LIMIT	UNI VOL VOL GAU
SS34IRT SS343RT SS349RT RELEASE SS34IRT SS343RT SS349RT DIFFERENTIAL SS34IRT SS34IRT		35 45 240 10 40 135 5 5	75 135 305 35 85 225 40 50	35 205 460 20 20 80 370 80 20	GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS	PARAMETERSUPPLY VOLTAGEAPPLIED OUTPUT VOLTAGEOUTPUT CURRENTMAGNETIC FLUXCATALOG LISTINGSS34IRT	CONDITIONS	MIN -28.0 -0.5 -0.5 -0.5 -0.5	CATALC	MAX 28.0 28.0 20.0 NO LIMIT DG LISTING S34IR	UNI VOL MA GAU ID
SS34IRT SS343RT SS349RT RELEASE SS34IRT SS343RT SS349RT DIFFERENTIAL SS343RT SS341RT SS349RT		35 45 240 10 40 135 5 5 30	75 135 305 35 85 225 40 50 80	135 205 460 120 180 370 80 120 170	GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS	PARAMETERSUPPLY VOLTAGEAPPLIED OUTPUT VOLTAGEOUTPUT CURRENTMAGNETIC FLUXCATALOG LISTINGSS34IRTSS343RT	CONDITIONS 	MIN - 28.0 - 0.5 - 0.5 - 0.5 - 0.5 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	CATALC	MAX 28.0 28.0 20.0 NO LIMIT DG LISTING S34IR S343R	UNI VOL MA GAUS
SS34IRT SS343RT SS349RT RELEASE SS34IRT SS343RT SS343RT DIFFERENTIAL SS343RT SS343RT		35 45 240 10 40 135 5 5 30	75 135 305 35 85 225 40 50 80	135 205 460 120 180 370 80 120 170	GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS GAUSS	PARAMETERSUPPLY VOLTAGEAPPLIED OUTPUT VOLTAGEOUTPUT CURRENTMAGNETIC FLUXMAGNETIC FLUXSS34IRTSS343RTSS349RT	CONDITIONS 	MIN - 28.0 - 0.5 - 0.5 - 0.5 - 0.5 - 0.5 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	CATAL C	MAX 28.0 28.0 20.0 NO LIMIT OG LISTING S34IR S343R S349R	UNI VOL VOL MA GAU



А



4



В

А

D

ESD SENSITIVITY: CLASS 2

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF	Honeywell								
HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL	SIZE TYPE CAGE_CODE DRAWING NAME C I - SS340R SERIES CHART 1 I	B B							
THE PERMITORION OF HOREFMELL.	SCALE NONE SHEET 3 OF 4								

D

(

 \rightarrow

В

А

4









4

3

CANTTON ELECTROSTATIC SENSITIVE DO NOT OPEN OF HANDLE EXCEPT ATA STATIC FREE WORKSTATION SENSITIVITY: CLASS 2	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.		size C	TYPE I	CAGE	_CODE	Honeyw Drawing N. SS340R	ell Ame SERIES	CHART 1	REV B
			SCAL	E NC	DNE			SHEET	4 OF	4
2										