

MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

SOLID STATE SENSOR

SS5 SERIES CHART 1

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CATALOG LISTING
SS5 SERIES CHART
PAGE 2 OF 5

ISSUE
14

REV. 14

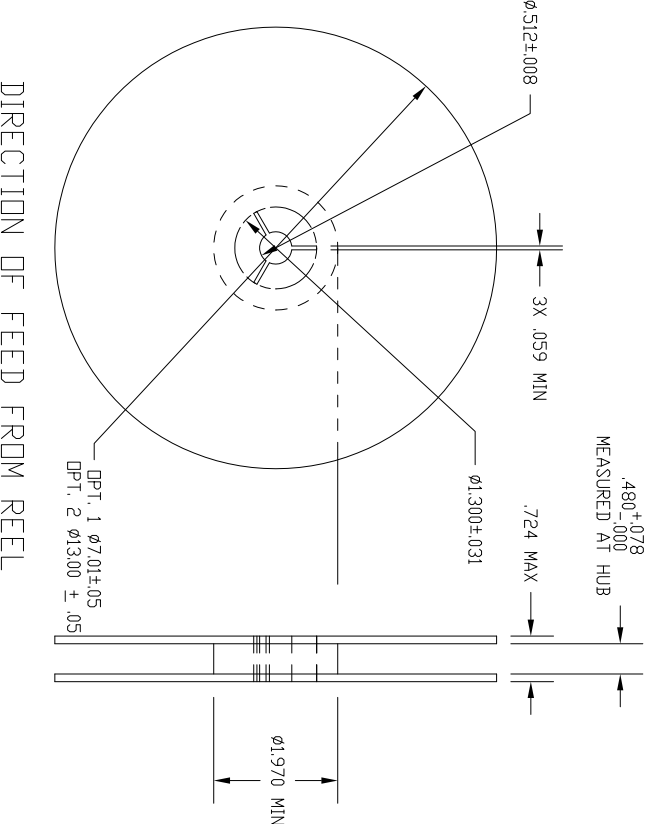
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RELEASE NO. DR-4996
REPLACES --

SECTION A-A
TAPE AND REEL DIMENSIONS

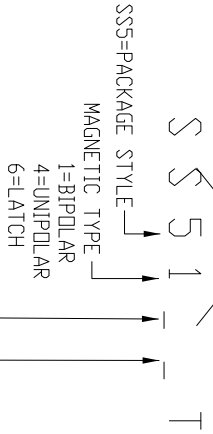


DIRECTION OF FEED FROM REEL

SS5 CATALOG SYSTEM



PREFIX
BASIC CATALOG LISTING:
PACKAGE STYLE, MAGNETIC TYPE,
ELECTRICAL/MAGNETIC SPECS
CHARACTERS IN THESE
POSITIONS OF THE LISTING
ARE BRANDED ON THE PRODUCT



RELATIVE GAUSS OPERATING RANGE
(BLANK, 0-9, 9=HIGH GAUSS)
ELECTRICAL/MAGNETIC OPTIONS
(BLANK, A-K & U-Z)
A=STANDARD
B-K & U-Z=SPECIALS



THIRD ANGLE PROJECTION	
	NONE
SCALE	DO NOT SCALE PRINT
UNLESS TOLERANCES SPECIFIED	TOLERANCES ARE
ONE PLACE (.00)	+0.003
TWO PLACE (.000)	+0.015
THREE PLACE (.0000)	+0.05
ANGLES	±
WEIGHT	

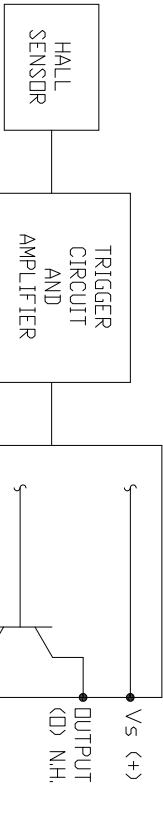


TABLE 1 - MAGNETIC SPECIFICATIONS

LISTING	-40°C	0°C	25°C	85°C	125°C	150°C
MIN OPERATE GAUSS						
SS51T	NS	NS	NS	NS	NS	NS
SS511AT	NS	NS	NS	NS	NS	NS
SS513AT	NS	NS	NS	NS	NS	NS
SS541AT	50	53	55	45	40	35
SS543AT	110	110	110	90	80	65
SS549AT	285	305	310	290	270	260
SS561AT	5	5	10	10	5	5
SS566AT	100	100	100	95	80	70
MAX OPERATE GAUSS						
SS51T	145	145	140	150	200	250
SS511AT	70	65	60	60	65	70
SS513AT	140	140	140	140	140	140
SS541AT	135	117	115	120	123	125
SS543AT	215	190	180	180	190	200
SS549AT	435	400	390	400	410	420
SS561AT	110	90	85	85	100	110
SS566AT	200	185	180	180	180	185
MIN RELEASE GAUSS						
SS51T	-145	-145	-140	-150	-200	-250
SS511AT	-70	-65	-60	-60	-65	-70
SS513AT	-140	-140	-140	-140	-140	-140
SS541AT	20	20	20	15	15	10
SS543AT	80	80	75	70	60	55
SS549AT	210	230	235	215	200	185
SS561AT	-110	-90	-85	-85	-100	-110
SS566AT	-200	-185	-180	-180	-180	-185
MAX RELEASE GAUSS						
SS51T	NS	NS	NS	NS	NS	NS
SS511AT	NS	NS	NS	NS	NS	NS
SS513AT	NS	NS	NS	NS	NS	NS
SS541AT	120	99	95	105	115	120
SS543AT	190	165	155	165	180	195
SS549AT	360	325	315	325	340	345
SS561AT	-5	-5	-10	-10	-5	-5
SS566AT	-100	-100	-100	-95	-80	-70
MIN DIFF GAUSS						
SS51T	40	50	50	50	60	NS
SS511AT	15	15	15	12	12	10
SS513AT	20	20	20	20	20	20
SS541AT	15	15	20	15	8	5
SS543AT	25	25	25	15	10	5
SS549AT	30	30	30	30	30	30
SS561AT	50	50	50	50	50	50
SS566AT	200	200	200	190	160	140

SS5XT ELECTRICAL SPECIFICATIONS

CHARACTERISTIC	TEST CONDITIONS	UNITS
VOLTAGE RANGE		4.5 TO 24
MAX ION	VCC = 24V, -40°C < T < 150°C, B > MAX DP	100 mA
MAX Ioff	VCC = 24V, Vout = 24V, -40°C < T < 150°C, B < MIN REL	11.3 mA
SINK CURRENT		20 mA
MAX V _{sat}	VCC = 4.5V TO 24V, T = 25°C, B > MAX DP	0.4 VOLTS
MAX LEAKAGE		10 μA
RISE TIME	VCC = 12V, R	Ω, C
10% TO 90%		1.5 μS
FALL TIME	VCC = 12V, R	Ω, C
90% TO 10%		1.5 μS

ABSOLUTE MAXIMUM RATINGS SS5XT	200pf
TEMPERATURE	-40°C TO +150°C
SUPPLY VOLTAGE	-28 VDC 28 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	280 VDC MAX WITH SWITCH IN OFF COND. ONLY
OUTPUT CURRENT	-0.5 VDC WITH SWITCH IN DN OR OFF COND.
MAGNETIC FLUX	20 mA
	NO LIMIT

SS5XXAT ELECTRICAL SPECIFICATIONS

CHARACTERISTIC	TEST CONDITIONS	UNITS
VOLTAGE RANGE		3.8 TO 30
MAX ION	VCC = 30V, -40°C < T < 150°C, B > MAX DP	100 mA
MAX Ioff	VCC = 30V, Vout = 30V, -40°C < T < 150°C, B < MIN REL	10.0 mA
SINK CURRENT		20 mA
MAX V _{sat}	VCC = 3.8V, B > MAX DP	0.4 VOLTS
MAX LEAKAGE		10 μA
RISE TIME	VCC = 12V, R	Ω, C
10% TO 90%		1.5 μS
FALL TIME	VCC = 12V, R	Ω, C
90% TO 10%		1.5 μS

ABSOLUTE MAXIMUM RATING SS5XXAT		$\frac{20}{\text{pF}}$		$\frac{160}{\text{pF}}$	
CHARACTERISTIC	SYMBOL	MIN	MAX	UNITS	
POWER SUPPLY	VCC	-1	30	VOLTS	
OUTPUT VOLTAGE (OFF)	VOUT		30	VOLTS	
OUTPUT ON CURRENT	I SINK		SEE TABLE	mA	
OPERATING TEMPERATURE	T	-50	60	°C	
STORAGE TEMPERATURE	TS	-65	160	°C	
MAGNETIC FLUX	NO LIMIT				



TABLE 2	
SS5XX	
OUTPUT CURRENT	ABSOLUTE LIMITS
SUPPLY VOLTAGE	OUTPUT CURRENT MAX. mA
-1 TO 24	50
24 TO 25	37
25 TO 26	33
26 TO 27	28
27 TO 28	24
28 TO 29	19
29 TO 30	15

MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

SOLID STATE SENSOR

SS5 SERIES CHART 1

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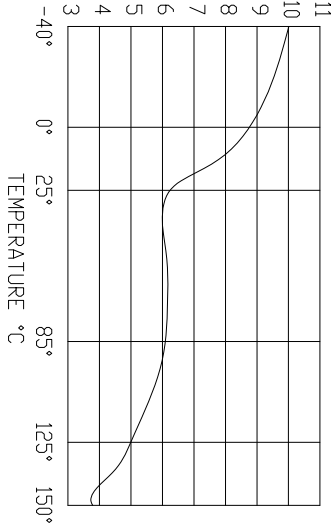
CATALOG LISTING

CATALOG LISTING
SS5 SERIES CHART
PAGE 4 OF 5

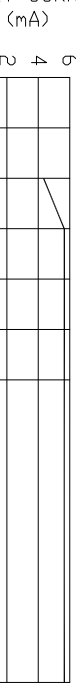
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X 29 MAR 98
Y 29 MAR 98
Z 29 MAR 98

SUPPLY CURRENT
(mA)

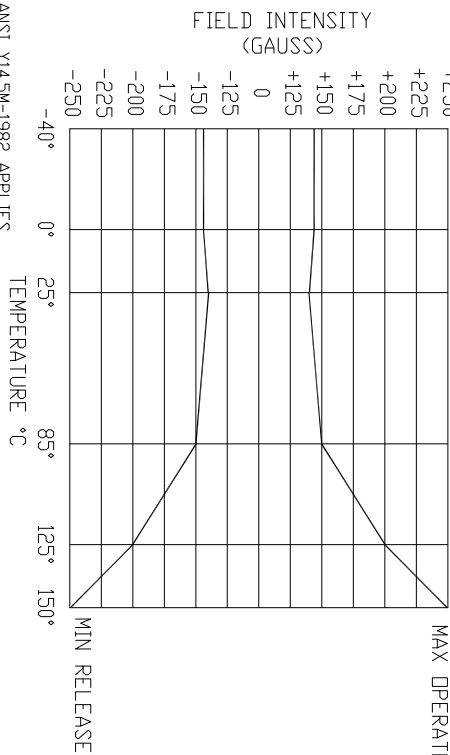


MAXIMUM SUPPLY CURRENT VS TEMPERATURE (OFF)



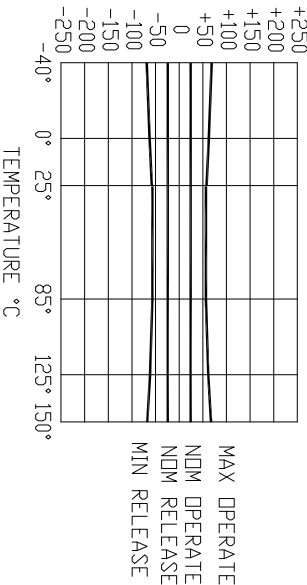
SUPPLY CURRENT
(mA)

TYPICAL SUPPLY CURRENT (DEVICE OFF) AT 25°C



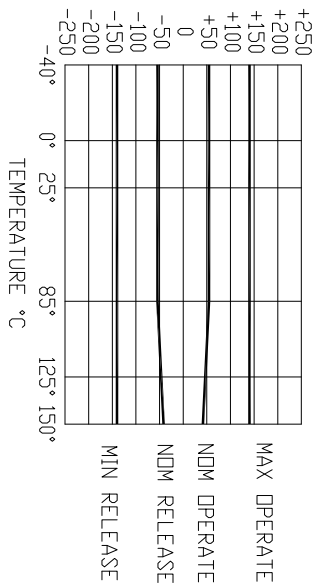
SS511AT

FIELD INTENSITY
(GAUSS)



SS513AT

FIELD INTENSITY
(GAUSS)



THIRD ANGLE PROJECTION
SCALE NONE
DO NOT SCALE PRINT

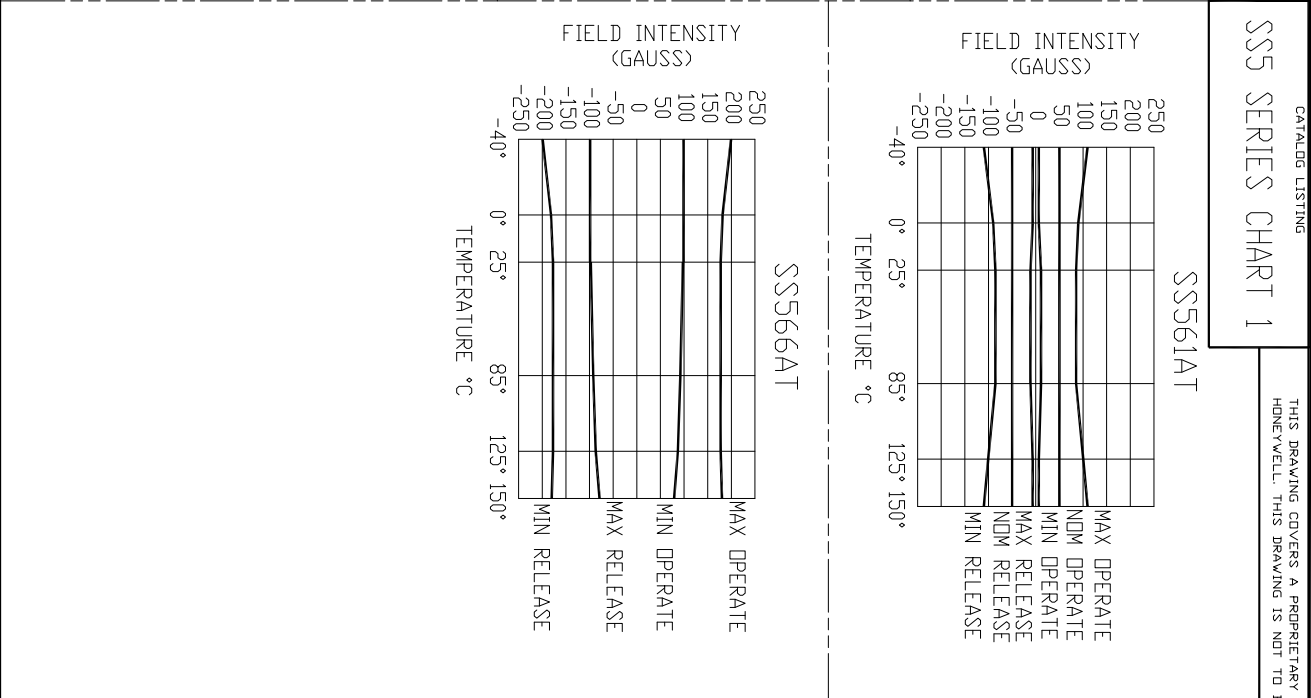
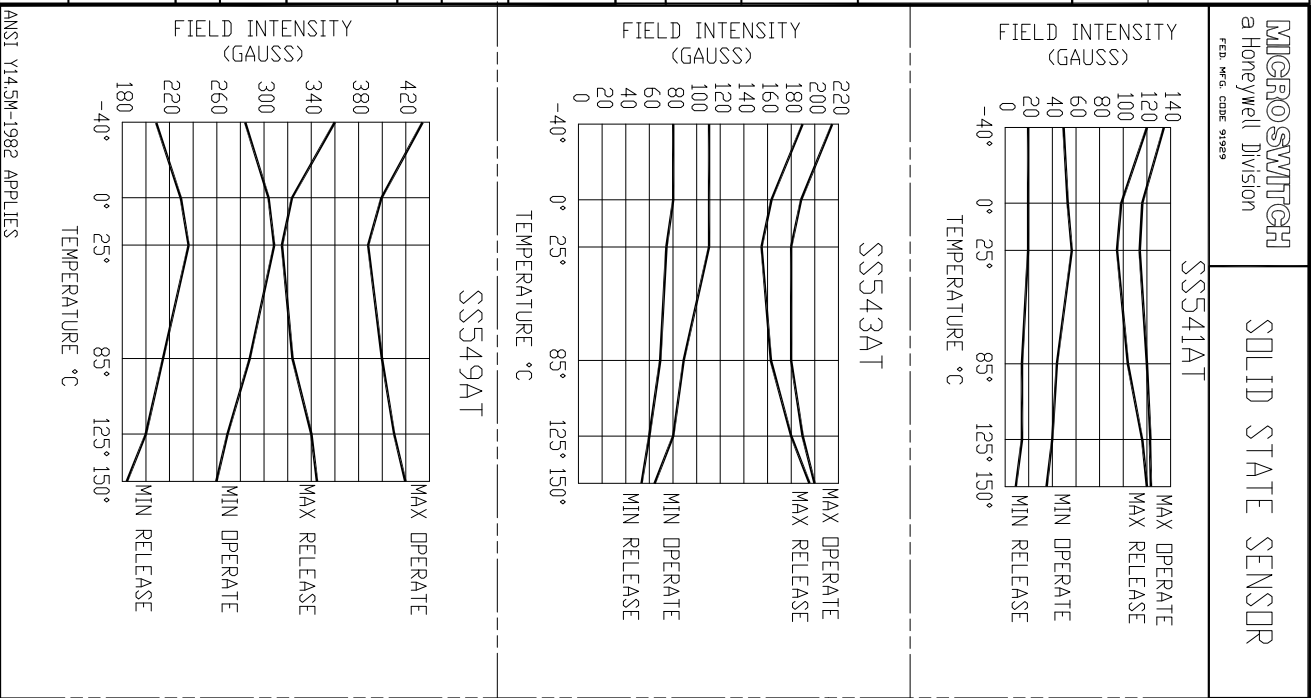
UNLESS TOLERANCES SPECIFIED
TOLERANCES ARE
ONE PLACE (.00) +0.05
TWO PLACE (.000) +0.005
THREE PLACE (.0000) +0.005
ANGLES ±



ESD SENSITIVITY:
CLASS 3

PTC/CAD 3D

ANSI Y14.5M-1982 APPLIES



CAUTION
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICE
DO NOT TOUCH
OR BREATHE
ON IT
HANDLE
BY THE GRIP
ONLY

ESD SENSITIVITY:
CLASS 3

THIRD ANGLE PROJECTION

SCALE NONE

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED
TOLERANCES ARE:
ONE PLACE .00
TWO PLACE .000
THREE PLACE .0000
ANGLES ±

WGT

WGT



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Электрон
Связь**

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