

PTC/CAD 3D DRAWN WJC 5 JAN 98 CHECK SAV 19 JAN 98 CHECK DGD 18 JAN 06 CHECK
 12 OF 5
 RELEASE NO. DR-4996
 REPLACES
 MICRO SWITCH
 a Honeywell Division
 FED. MFG. CODE 91929
 CATALOG LISTING
 S55 SERIES CHART 1
 ISSUE 12
 REVISIONS
 B 27 DEC 88
 C 27 DEC 88
 D 27 DEC 88
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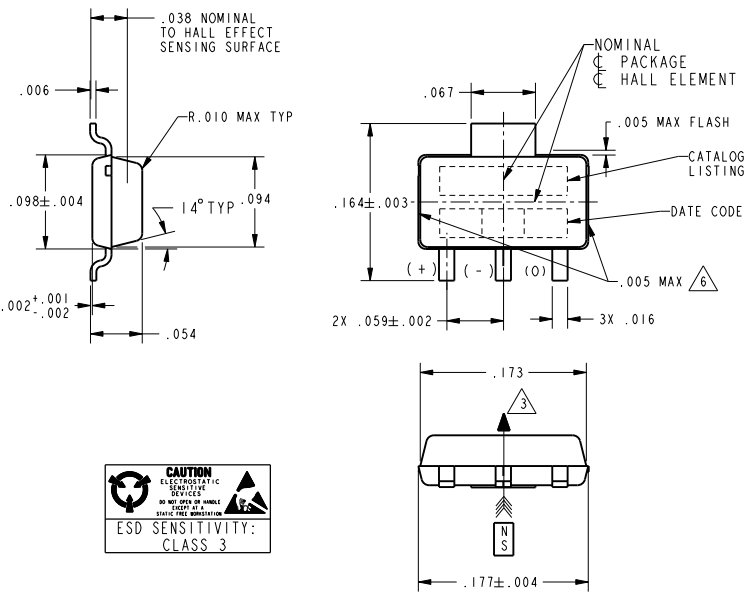
MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

SOLID STATE SENSOR

CATALOG LISTING
S55 SERIES CHART 1

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- NOTES
- 1 - SOLDERING INSTRUCTIONS: EXPOSURE TO HIGH TEMPERATURES SHOULD BE KEPT AT A MINIMUM MICRO SWITCH RECOMMENDS AN INFRARED REFLOW PROCESS WITH PEAK TEMPERATURES NOT EXCEEDING 230°C (446°F) 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 MICRO SWITCH'S WARRANTY.
 - 2 - 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.
 - 3 - THE MAGNETIC FLUX USED TO OPERATE THE SWITCH MUST BE IN THE DIRECTION AND LOCATION SHOWN. (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET.)
 - 4 - 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.
 - 5 - A "T" SUFFIX ON ANY CATALOG LISTING DESIGNATES THE PRODUCT WILL BE SUPPLIED IN TAPE AND REEL FORM PER EIA STD 481. S55 SERIES SOLD IN TAPE AND REEL ONLY. SOME BASIC LISTINGS MAY NOT BE AVAILABLE.
 - 6 - GATE VESAGE PERMITTED IN THESE AREAS. UNDERFLUSH BREAKOUT LIMITED TO .007.
 - 7 - THESE HALL EFFECT SENSORS MAY HAVE AN INITIAL OUTPUT IN EITHER THE ON OR OFF STATE IF POWERED UP WITH AN APPLIED MAGNETIC FIELD IN THE DIFFERENTIAL ZONE (APPLIED MAGNETIC FIELD > Brp AND < Bop). MICRO SWITCH RECOMMENDS THAT THE APPLICATION CIRCUIT DESIGNER ALLOW 10 MICROSECONDS AFTER SUPPLY VOLTAGE HAS REACHED 5 VOLTS FOR THE OUTPUT VOLTAGE TO STABILIZE.



CAUTION
ELECTROSTATIC SENSITIVE DEVICE
DO NOT TOUCH OR HANDLE
UNLESS IN A
STATIC FREE ENVIRONMENT

ESD SENSITIVITY:
CLASS 3

CONVERSION TO METRIC DIMENSIONS

DIMENSION IN INCHES	METRIC REFERENCE EQUIVALENT, MM	DIMENSION IN INCHES	METRIC REFERENCE EQUIVALENT, MM
.001	0,025	.095	2,413
.002	0,051	.098	2,489
.003	0,076	.157	3,988
.004	0,102	.164	4,166
.005	0,127	.173	4,394
.006	0,152	.177	4,496
.007	0,178	.181	4,597
.008	0,203	.197	5,004
.015	0,381	.217	5,512
.016	0,406	.230	5,842
.030	0,762	.314	7,976
.031	0,787	.315	8,001
.038	0,965	.472	11,989
.050	1,270	.480	12,192
.059	1,499	.512	13,005
.067	1,702	.724	18,390
.069	1,753	1,300	33,020
.078	1,981	1,970	50,038
.079	2,007	7,010	178,054
.094	2,388	10,000	254,000

THIRD ANGLE PROJECTION

SCALE NONE

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (.01) ±.030

TWO PLACE (.00) ±.015

THREE PLACE (.000) ±.005

ANGLES ±

WEIGHT

ANSI Y14.5M-1982 APPLIES

MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

SOLID STATE SENSOR

SS5 SERIES CHART 1

CATALOG LISTING

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CATALOG LISTING **SS5 SERIES CHART 1**
 ISSUE **12**
 REVISIONS:
 B 18 FEB 1985
 C 27 JUN 88
 D 08 SEP 88
 E 08 NOV 88
 F 14 JAN 89
 G 20 MAR 89
 H 20 JUL 89
 I 20 NOV 89
 J 20 FEB 90
 K 20 MAY 90
 L 20 AUG 90
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 KV 20 AUG 64
 KW 20 NOV 64
 KX 20 FEB 65
 KY 20 MAY 65
 KZ 20 AUG 65
 LA 20 NOV 65
 LB 20 FEB 66
 LC 20 MAY 66
 LD 20 AUG 66
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 LF 20 FEB 67
 LG 20 MAY 67
 LH 20 AUG 67
 LI 20 NOV 67
 LJ 20 FEB 68
 LK 20 MAY 68
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 LN 20 FEB 69
 LO 20 MAY 69
 LP 20 AUG 69
 LQ 20 NOV 69
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 LS 20 MAY 70
 LT 20 AUG 70
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 MC 20 NOV 72
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 NW 20 MAY 84
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 NY 20 NOV 84
 NZ 20 FEB 85
 OA 20 MAY 85
 OB 20 AUG 85
 OC 20 NOV 85
 OD 20 FEB 86
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 OJ 20 AUG 87
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 PA 20 NOV 91
 PB 20 FEB 92
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 PD 20 AUG 92
 PE 20 NOV 92
 PF 20 FEB 93
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 PI 20 NOV 93
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 PL 20 AUG 94
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 PO 20 MAY 95
 PP 20 AUG 95
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 PV 20 FEB 97
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 PX 20 AUG 97
 PY 20 NOV 97
 PZ 20 FEB 98
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 QB 20 AUG 98
 QC 20 NOV 98
 QD 20 FEB 99
 QE 20 MAY 99
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 QG 20 NOV 99
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 QI 20 MAY 00
 QJ 20 AUG 00
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 QU 20 MAY 03
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 SJ 20 AUG 13
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 SL 20 FEB 14
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 SQ 20 MAY 15
 SR 20 AUG 15
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 SU 20 MAY 16
 SV 20 AUG 16
 SW 20 NOV 16
 SX 20 FEB 17
 SY 20 MAY 17
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 TV 20 FEB 36
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 TV 20 AUG 36

MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

SOLIC STATE SERIES

SS5 SERIES CHART 1

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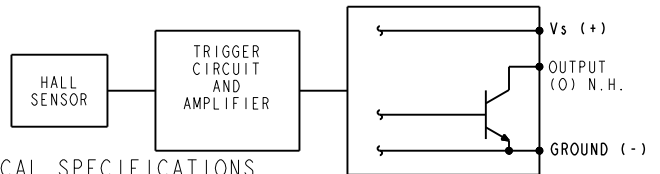


TABLE 1 - MAGNETIC SPECIFICATIONS \triangle ∇

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 VOLTS
MAX Ion	Vcc = 24V, -40°C < T < 150°C, B > MAX OP	10.0 mA
MAX Ioff	Vcc = 24V, Vout = 24V, -40°C < T < 150°C, B < MIN REL	11.3 mA
SINK CURRENT		20 mA
MAX Vsat	Vcc = 4.5V TO 24V, T = 25°C, B > MAX OP	0.4 VOLTS
MAX LEAKAGE		10 μ A
RISE TIME 10% TO 90%	Vcc = 12V, RL = 1.6K Ω , CL = 20pf	1.5 μ S
FALL TIME 90% TO 10%	Vcc = 12V, RL = 1.6K Ω , CL = 20pf	1.5 μ S

ABSOLUTE MAXIMUM RATINGS SS5XT ∇	
TEMPERATURE	-40°C TO +150°C
SUPPLY VOLTAGE	-28 VDC 28 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	28.0 VDC MAX WITH SWITCH IN OFF COND. ONLY -0.5 VDC WITH SWITCH IN ON OR OFF COND.
OUTPUT CURRENT	20 mA
MAGNETIC FLUX	NO LIMIT

SS5XXAT ELECTRICAL SPECIFICATIONS

CHARACTERISTIC	TEST CONDITIONS	UNITS
VOLTAGE RANGE		3.8 TO 30 VOLTS
MAX Ion	Vcc = 30V, -40°C < T < 150°C, B > MAX OP	10.0 mA
MAX Ioff	Vcc = 30V, Vout = 30V, -40°C < T < 150°C, B < MIN REL	10.0 mA
SINK CURRENT		20 mA
MAX Vsat	Vcc = 3.8V, B > MAX OP	0.4 VOLTS
MAX LEAKAGE		10 μ A
RISE TIME 10% TO 90%	Vcc = 12V, RL = 1.6K Ω , CL = 20pf	1.5 μ S
FALL TIME 90% TO 10%	Vcc = 12V, RL = 1.6K Ω , CL = 20pf	1.5 μ S

ABSOLUTE MAXIMUM RATING SS5XXAT ∇				
CHARACTERISTIC	SYMBOL	MIN	MAX	UNITS
POWER SUPPLY	VCC	-1	30	VOLTS
OUTPUT VOLTAGE (OFF)	VOUT		30	VOLTS
OUTPUT ON CURRENT	I SINK		SEE TABLE 2	mA
OPERATING TEMPERATURE	T	-50	160	°C
STORAGE TEMPERATURE	Ts	-65	160	°C
MAGNETIC FLUX				NO LIMIT

LISTING	TYPE	BRAND
SS51T	BIPOLAR	SS51
SS511AT	BIPOLAR	SS511A
SS513AT	BIPOLAR	SS513A
SS541AT	UNIPOLAR	SS541A
SS543AT	UNIPOLAR	SS543A
SS549AT	UNIPOLAR	SS549A
SS561AT	LATCH	SS561A
SS566AT	LATCH	SS566A



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

THIRD ANGLE PROJECTION

SCALE NONE

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (.01) \pm 0.30

TWO PLACE (.001) \pm 0.15

THREE PLACE (.0001) \pm 0.05

ANGLES \pm

WEIGHT

ANSI Y14.5M-1982 APPLIES

ISSUE 12
 CATALOG LISTING SS5 SERIES CHART 1
 REVISIONS:
 B 18 JAN 98
 C 27 JUL 98
 D 18 JAN 98
 E 18 JAN 98
 F 20 SEP 95
 G 201747
 H 208174
 J 207146
 K 207146
 L 208174
 M 2018451
 N 18 JAN 98
 PTC/CAD 3D
 WJC 5 JAN 98
 SAV 19 JAN 98
 CHECK
 DGD 18 JAN 06
 CHECK
 RELEASE NO. DR-4996
 REPLACES PAGE 3 OF 5

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SOLID STATE SENSOR

SS5 SERIES CHART 1

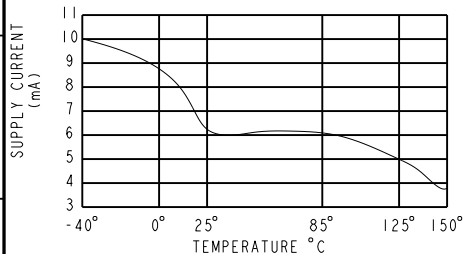
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CATALOG LISTING
SS5 SERIES CHART 1
PAGE 4 OF 5
ISSUE **12**

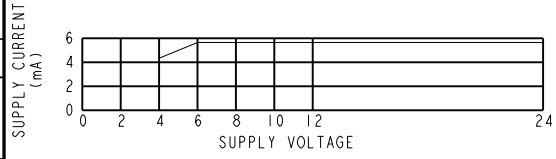
REVISIONS
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E 1 MAR 89
F 31 MAY 90
G 20 NOV 92
H 207146
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K 18 JAN 96

PTC/CAD 3D
DRAWN
WJC 5 JAN 98
SAV 19 JAN 98
CHECK
DGD 18 JAN 06
CHECK

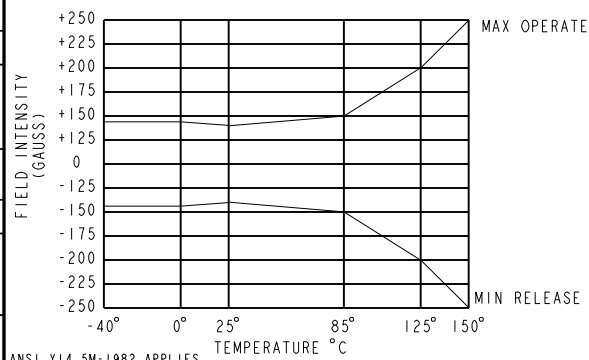
SS5IT



MAXIMUM SUPPLY CURRENT VS TEMPERATURE (OFF)

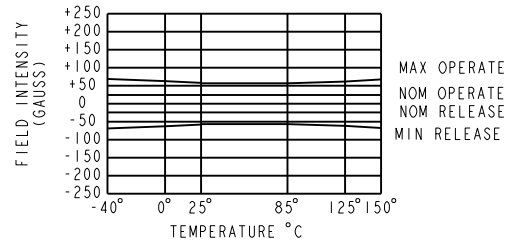


TYPICAL SUPPLY CURRENT (DEVICE OFF) AT 25°C

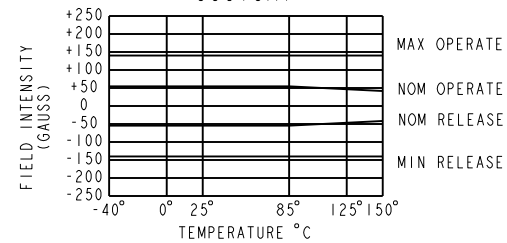


ANSI Y14.5M-1982 APPLIES

SS511AT



SS513AT



CAUTION
ELECTROSTATIC SENSITIVE DEVICE
DO NOT OPEN OR HANDLE UNLESS PROPERLY PREPARED
ESD SENSITIVITY: CLASS 3

THIRD ANGLE PROJECTION	
SCALE	NONE
DO NOT SCALE PRINT	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	
ONE PLACE	(.0) ±.030
TWO PLACE	(.00) ±.015
THREE PLACE	(.000) ±.005
ANGLES	±
WEIGHT	

CATALOG LISTING
SS5 SERIES CHART 1
 ISSUE 12
 PAGE 5 OF 5

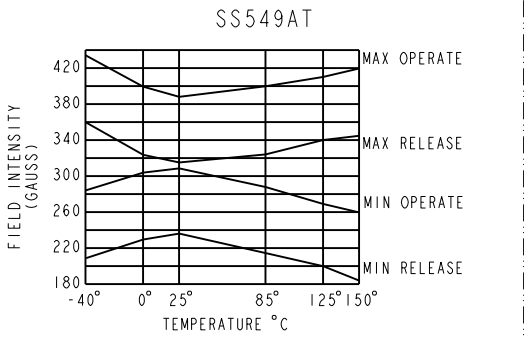
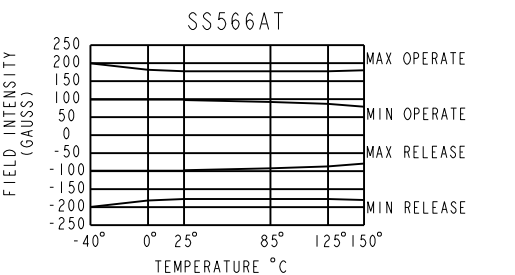
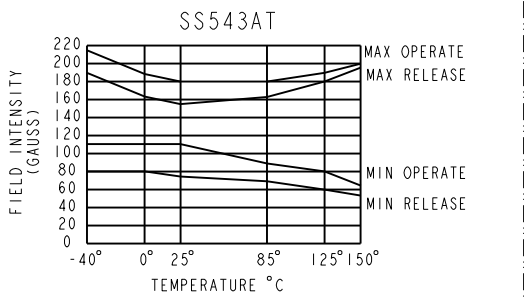
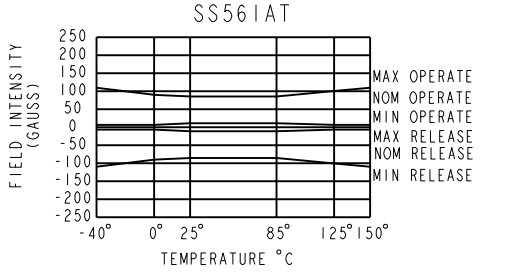
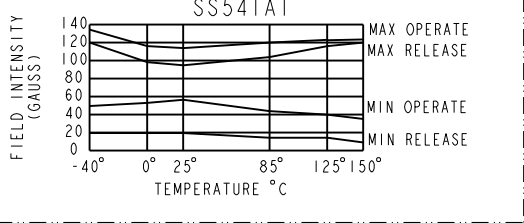
REV	DATE	BY	CHK	DESCRIPTION
A	18 JAN 06	WJC	SAV	REL 2006
B	18 JAN 06	WJC	SAV	REL 2006
C	18 JAN 06	WJC	SAV	REL 2006
D	18 JAN 06	WJC	SAV	REL 2006
E	18 JAN 06	WJC	SAV	REL 2006
F	18 JAN 06	WJC	SAV	REL 2006
G	18 JAN 06	WJC	SAV	REL 2006
H	18 JAN 06	WJC	SAV	REL 2006
I	18 JAN 06	WJC	SAV	REL 2006
J	18 JAN 06	WJC	SAV	REL 2006
K	18 JAN 06	WJC	SAV	REL 2006
L	18 JAN 06	WJC	SAV	REL 2006
M	18 JAN 06	WJC	SAV	REL 2006
N	18 JAN 06	WJC	SAV	REL 2006
O	18 JAN 06	WJC	SAV	REL 2006
P	18 JAN 06	WJC	SAV	REL 2006
Q	18 JAN 06	WJC	SAV	REL 2006
R	18 JAN 06	WJC	SAV	REL 2006
S	18 JAN 06	WJC	SAV	REL 2006
T	18 JAN 06	WJC	SAV	REL 2006
U	18 JAN 06	WJC	SAV	REL 2006
V	18 JAN 06	WJC	SAV	REL 2006
W	18 JAN 06	WJC	SAV	REL 2006
X	18 JAN 06	WJC	SAV	REL 2006
Y	18 JAN 06	WJC	SAV	REL 2006
Z	18 JAN 06	WJC	SAV	REL 2006

MICRO SWITCH
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SOLID STATE SENSOR

CATALOG LISTING
SS5 SERIES CHART 1

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ANSI Y14.5M-1982 APPLIES



THIRD ANGLE PROJECTION	
SCALE	NONE
DO NOT SCALE PRINT	
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	
ONE PLACE	(.0) ±.030
TWO PLACE	(.00) ±.015
THREE PLACE	(.000) ±.005
ANGLES	±
WEIGHT	