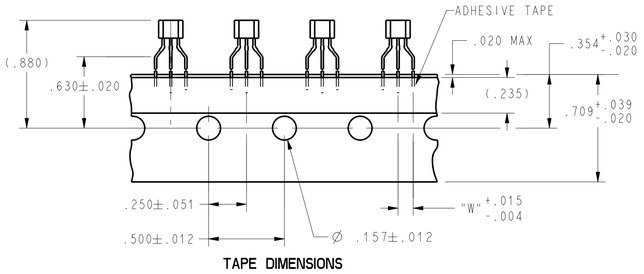
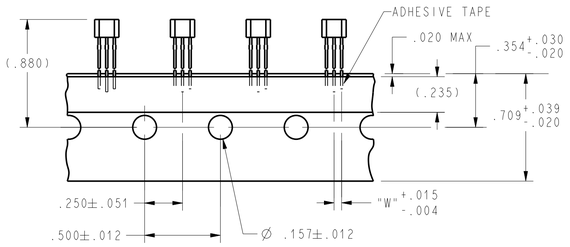
TAPE PACKING OPTIONS

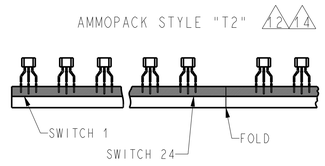


TAPE DIMENSIONS



TAPE DIMENSIONS

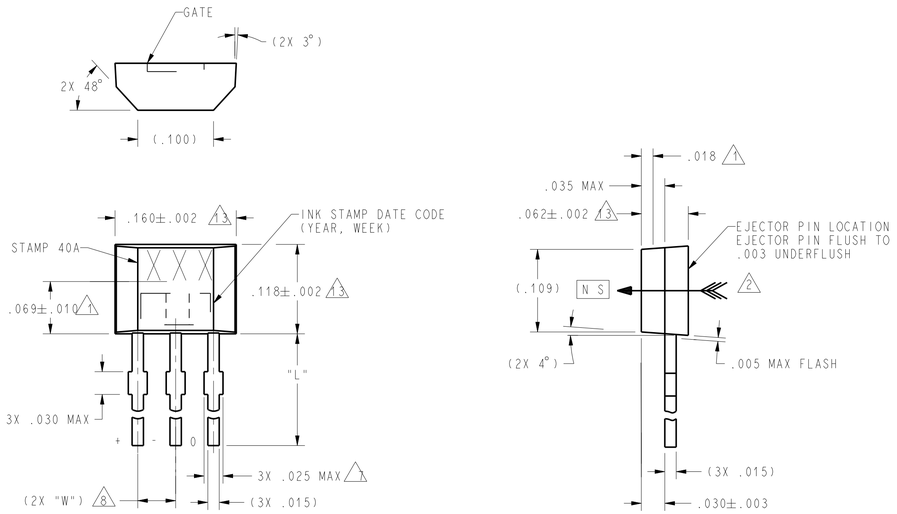
TAPE STYLE



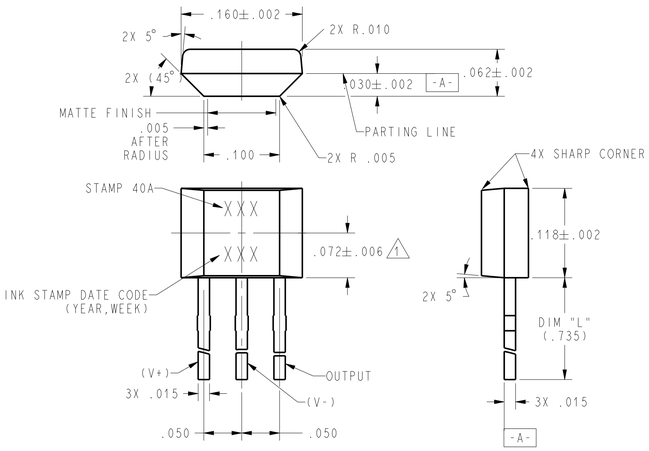
NOTES

1. CENTERLINE OF HALL CELL
2. THE + MAGNETIC FLUX IS IN THE DIRECTION 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)
3. THE DEVICE CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE
4. THE MAGNETIC FIEKD STRENGTH (GAUSS) REQUIRED TO CAUSE THE SWITCH TO CHANGE STATE (OPERATE AND RELEASE) WILL BE AS TABULATED. TO TEST THE SWITCH AGAINST THE SPECIFIED LIMITS, THE SWITCH MUST BE PLACED IN A UNIFORM MAGNETIC FIELD
5. LEADS MUST BE ADEQUATELY SUPPORTED DURING ANY FORMING/SHEERING OPERATION TO ASSURE THAT THE LEADS ARE NOT STRESSED WITHIN THE PLASTIC
6. PCB WAVE SOLDERING GUIDELINES ARE AS FOLLOWS: 250°C TO 260°C SOLDERING TEMPERATURE 3 SECONDS MAX SOLDERING TIME
7. BURRS ARE ALLOWED ONLY IF FULL LENGTH OF LEADS WILL PASS THROUGH Ø.023 HOLE. LEAD REFERENCE DIMENSIONS DO NOT INCLUDE SOLDER THICKNESS
8. DIMENSION REFERS TO THE LOCATION OF LEAD CENTERLINES AS THE EXIT THE PLASTIC PACKAGE
9. SOME COMBINATIONS OF BASIC LISTING AND PACKAGE OPTIONS MAY NOT BE AVAILABLE
10. 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 RATED VOLTAGE AND/OR CURRENTS ARE EXCEEDED NOR WILL THE DEVICE NECESSARILY OPERATE AT ABSOLUTE MAXIMUM RATINGS
11. LEAD STRAIGHTNESS MAY BE DETERIORATED ON SOME UNITS BY BULK PACKAGING. APPLICATIONS HAVING A CRITICAL LEAD STRAIGHTNESS REQUIREMENT SHOULD USE A TAPE PACKAGING OPTION
12. AMMOPACK STYLE "T2" & "T3". 24 SWITCHES BETWEEN FOLDS, SKIP 1 SPACE AT FOLD. MAY BE REFERRED TO AS "FAN FOLD"
13. MOLDED PART DIMENSIONS DO NOT INCLUDE FLASH. FLASH IS LIMITED TO .005 MAX
14. TAPE AND AMMOPACK PER EIA-468
15. 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

CATALOG LISTING	TAPE STYLE	DIM "L"	DIM "W"	COMMENTS 11
SS40A	NONE	.590	.050	BULK - 1000/BAG
SS40A-T2	T2	.590	.100	5000/BOX
SS40A-T3	T3	.590	.050	5000/BOX
SS40A-L	NONE	.735	.050	BULK - 1000/BAG
SS40A-F	NONE	.590	.100	BULK - 500/BAG



LEAD STYLES "STD", "T2", "T3"



LEAD STYLES L ONLY

CAUTION ELECTROSTATIC SENSITIVE DEVICES DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION

ESD SENSITIVITY: CLASS 2

ANSI Y14.5M-1982 APPLIES

FED. MFG. CODE #1929

MICRO SWITCH a Honeywell Division

SOLID STATE SENSOR

CATALOG LISTING

SS40A SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE 10:1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE	(.0)	+.030
TWO PLACE	(.00)	+.015
THREE PLACE	(.000)	+.005
ANGLES		+2°

WEIGHT

DRAWN	CVS	24MAR03	CHECK	SB	24MAR03
PTC/CAD	20		CHECK		

MSS40A SERIES CHART 1 | PAGE 1 OF 2 | RELEASE NO. 0004092 | DRAWING NUMBER | ISSUE A | CHECK | REVISIONS | CHECK | CHECK | REPLACES -

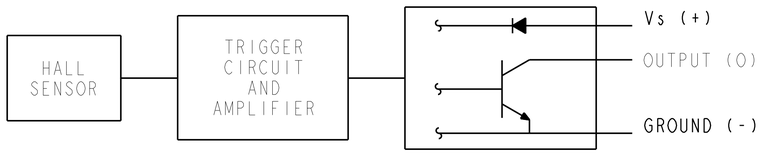
CHARACTERISTICS ARE AT Vs=4.5 TO 24 VOLTS WITH 20mA LOAD WITH △4△ △15△
TA=-40°C TO +125°C UNLESS OTHERWISE NOTED

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SUPPLY VOLTAGE		4.5		24.0	VOLTS
SUPPLY CURRENT	25°C		6.8	10.0	mA
SUPPLY CURRENT				11.3	mA
OUTPUT CURRENT				20.0	mA
Vsat AT 15mA	GAUSS > 170			0.4	VOLTS
OUTPUT LEAKAGE	GAUSS < -170			10.0	µA
RISE TIME	25°C		0.5	1.5	µS
FALL TIME	25°C		0.2	1.5	µS
RESPONSE TIME	25°C		4.0	5.0	µS
MAX OPERATE	25°C		45	110	GAUSS
MAX OPERATE	-40°C TO 85°C		50	130	GAUSS
MAX OPERATE			55	170	GAUSS
MIN RELEASE	25°C	-110	-45		GAUSS
MIN RELEASE	-40°C TO 85°C	-130	-50		GAUSS
MIN RELEASE		-170	-55		GAUSS
MIN DIFFERENTIAL		50			GAUSS
OPERATING TEMP		-40		+125	°C
STORAGE TEMP		-55		+165	°C

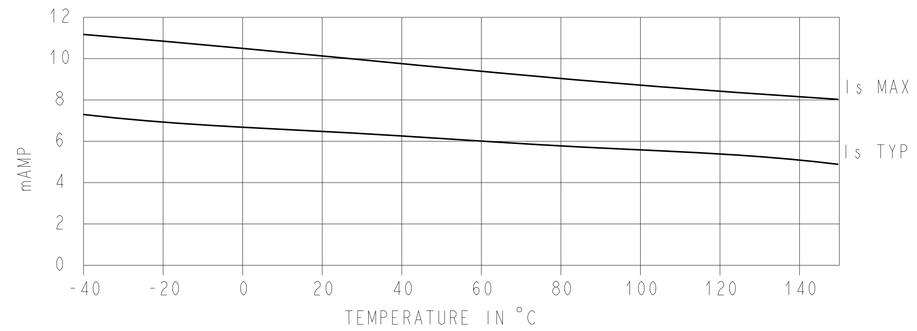
ABSOLUTE MAXIMUM RATING △10△

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
SUPPLY VOLTAGE		-28		28	VOLTS
APPLIED OUTPUT VOLTAGE		-0.5		28	VOLTS
OUTPUT CURRENT				20	mA
MAGNETIC FLUX				NO LIMIT	GAUSS

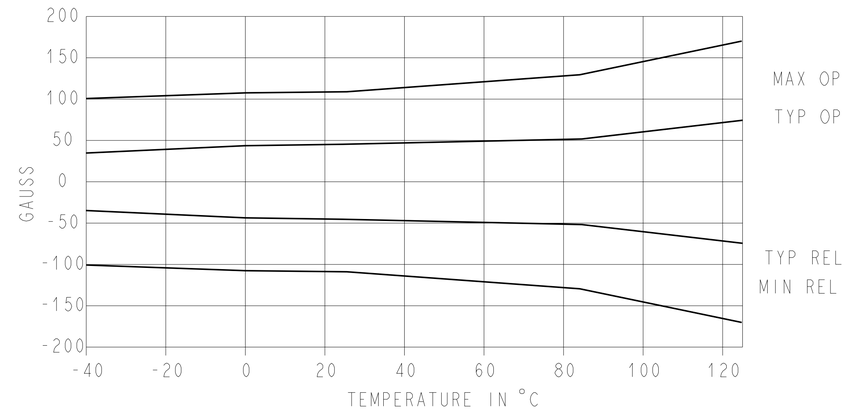
BLOCK DIAGRAM CURRENT SINKING OUTPUT



SUPPLY CURRENT AT Vs =24 VOLTS



MAGNETIC CHARACTERISTICS



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ESD SENSITIVITY: CLASS 2

ANSI Y14.5M-1982 APPLIES

FED. MFG. CODE #1929
MICRO SWITCH a Honeywell Division

SOLID STATE SENSOR

CATALOG LISTING
SS40A SERIES CHART 1

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

DRAWN CVS 24MAR03
PTC/CAD 20
CHECK SB 24MAR03
CHECK
APPROVAL
ISSUE A
DRAWING NUMBER
RELEASE NO. 0004032
PAGE 2 OF 2
REPLACES -
SS40A SERIES CHART 1
REVISIONS
CHECK