

M

2AV54

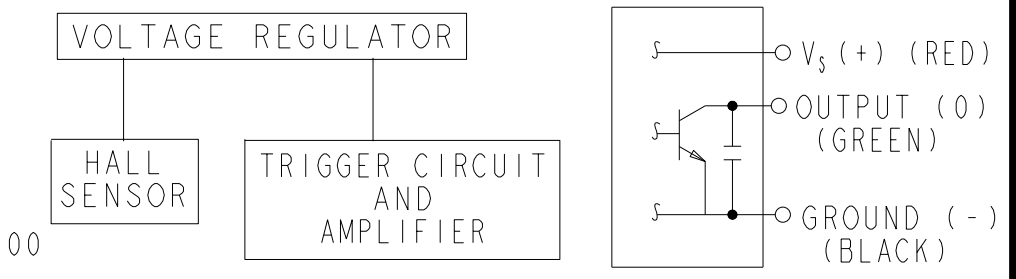
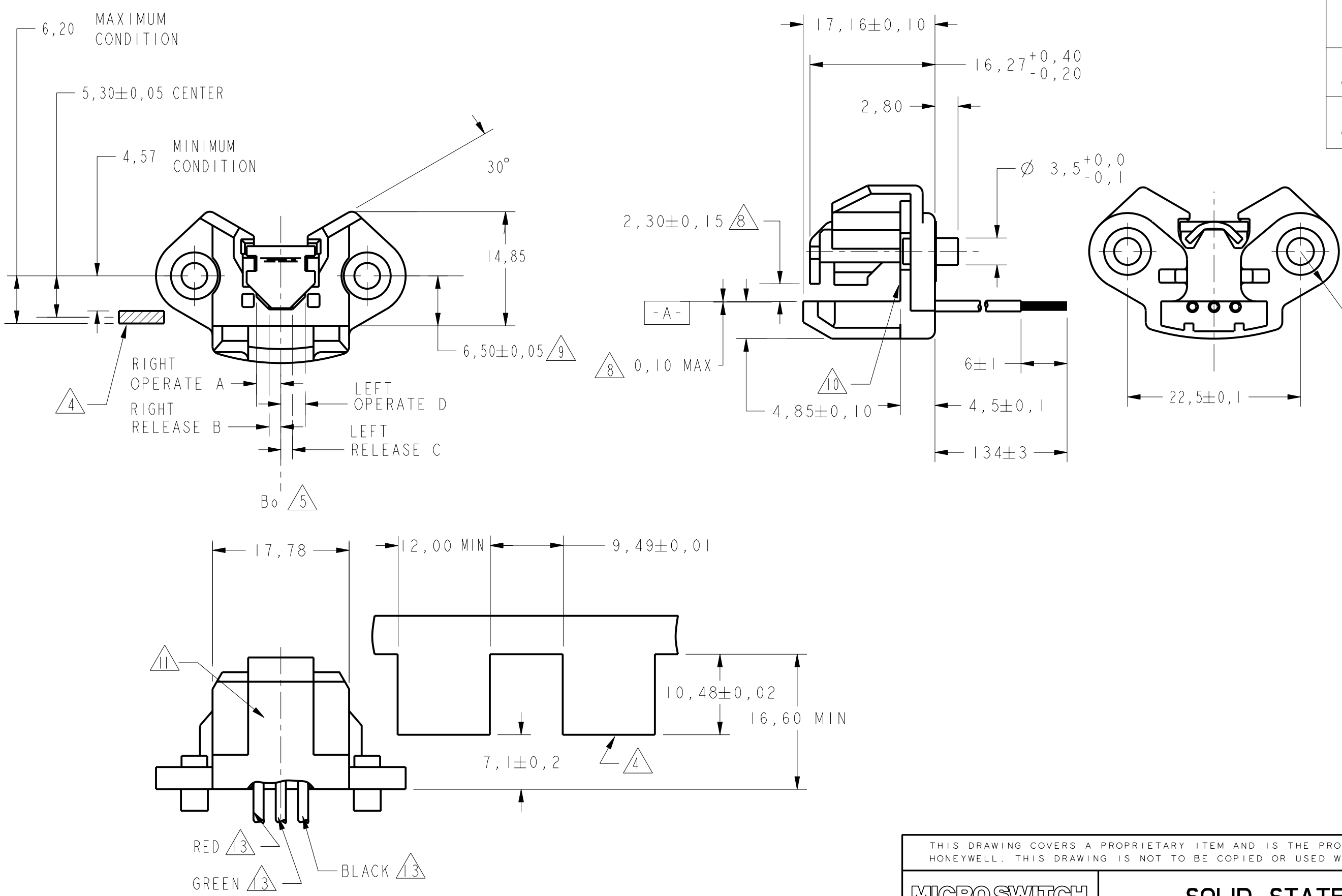
- NOTES
- 1 OVER VOLTAGE RANGE OF 4.5 TO 24 VDC AND TEMPERATURE RANGE OF -40°C TO +150°C
 - 2 SWITCH IS OFF (RELEASED) WHEN VANE IS IN GAP
 - 3 CHARACTERISTICS MEASURED WITH THE VANE AT NOMINAL DIMENSION AND A 20mA LOAD
 - 4 A 0,79±0,01 THICK CRS (ANNEALED 1010-1018 OR LOWER CARBON) VANE OF SHOWN DIMENSIONS IS TO BE USED WHEN CHECKING MECHANICAL CHARACTERISTICS. VANE CENTER TO BE HELD 5,30±0,05 FROM RIVET CENTERLINE
 - 5 $B_0 =$ (MECHANICAL CHARACTERISTICS CENTER REFERENCE POINT), DETERMINED BY THE EQUATION: $(A+B+C+D)/4=B_0$. OPERATE = TRAILING EDGE TRIGGER POINT. RELEASE = LEADING EDGE TRIGGER POINT. DIFFERENTIAL = OPERATE MINUS RELEASE (A - C)
 - 6 ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THE DEVICE WILL WITHSTAND WITHOUT PERMANENT DAMAGE TO THE DEVICE. HOWEVER, DEVICE OPERATION IS NOT GUARANTEED AS MAXIMUM LIMITS ARE APPROACHED
 - 7 MAX RISE TIME IS BASED ON 4700 pF +20% -10% CAPACITOR FROM OUTPUT TO COMMON (GROUND)
 - 8 THIS DIMENSION TO BE MEASURED FROM BASE OF IC TOWER TO MAGNET FACE. STEADY STATE DEFLECTION AT TOP OF IC TOWER MAY NOT EXCEED 0,10 ABSOLUTE, RELATIVE TO DATUM A
 - 9 THIS DIMENSION TO BE MEASURED FROM BASE OF IC TOWER TO RIVET CENTERLINE
 - 10 EPOXY IN THIS AREA MAX. 0,3 HEIGHT PERMISSIBLE
 - 11 CATALOG LISTING AND DATE CODE MARKED THIS SURFACE
 - 12 A POSITIVE DELTA OPERATE MEANS THE OPERATE POINT IS MOVING AWAY FROM B_0 . A POSITIVE DELTA RELEASE MEANS THE RELEASE POINT IS MOVING TOWARD B_0 . DELTAS ARE REFERENCED FROM CHARACTERISTIC MEASUREMENT AT 12 VDC AND 25°C
 - 13 WIRES ARE 24 AWG CROSS-LINKED POLYETHYLENE

ELECTRICAL CHARACTERISTICS

	TYP 25°C	CURRENT SINK	
		MAX	REMARKS
SUPPLY CURRENT	10 mA	22 mA	PLUS LOAD CURRENT
OUTPUT VOLTAGE (OPERATED) (ON)	0.2 VOLTS	0.4 VOLTS	20 mA MAX LOAD
OUTPUT LEAKAGE CURRENT (RELEASED) (OFF)	0.2μA	10μA	OUTPUT TRANSISTOR LEAKAGE
OUTPUT SWITCHING TIME			40 mA LOAD
RISE TIME (REL. POINT)	6.2μS	12μS	10% TO 90%
FALL TIME (OPER. POINT)	0.2μS	1μS	90% TO 10%#

ABSOLUTE MAXIMUM RATINGS

SUPPLY VOLTAGE (V _s)	-40 TO +30
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+40 VDC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.8 VDC MIN WITH SWITCH IN "ON" OR "OFF" CONDITION
LOAD ON OUTPUT	40 mA 5 MIN, MAX
TEMPERATURE	-40°C TO +160°C 2 HR MAX
TRANSIENT SUPPLY VOLTAGE	+80V FOR 250 mSEC MAX
TRANSIENT SUPPLY CURRENT	-.5 A TO +.5 A FOR 15μ SEC MAX
TRANSIENT OUTPUT CURRENT	-.5 A TO +.5 A FOR 15μ SEC MAX



BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUT

MECHANICAL CHARACTERISTICS

OPERATING RANGE	LEFT OR RIGHT			DIFFERENTIAL L TO R, R TO L
	OPERATE	RELEASE	DIFF.	
12 VDC	1,19 ±0,30	-1,04 ±0,33	0,38 ±0,33	2,21 ±0,64
25°C	-0,03 ±0,25	0,03 ±0,20		0,03 ±0,25
12V, 25°C TO 4.5V, -40°C	0,05 ±0,18	-0,03 ±0,15		-0,03 ±0,23
12V, 25°C TO 4.5V, 150°C	0,03 ±0,46	-0,03 ±0,48		-0,03 ±0,53
12V, 25°C TO 24V, 150°C	0,03 ±0,51	-0,03 ±0,51		-0,03 ±0,53

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

ESD SENSITIVITY: CLASS 3

THIRD ANGLE PROJECTION

SCALE 2 : 1

DO NOT SCALE PRINT

TOLERANCES APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE :

DIM.	TOL.	DIM.	TOL.
mm	mm/16	"	mm/16
NO PLACES	X	1/2, 3/4	X, X
ONE PLACE	X, X	0.47, 0.16	X, X, X
TWO PLACES	X, XX	0.15/ .006	X, XXX
THREE PLACES			
ANGLES			

DESIGN UNITS SI METRIC US CUSTOMARY

WEIGHT

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SOLID STATE VANE SWITCH

CATALOG LISTING

2AV54

ANSI Y14.5M-1982 APPLIES

FED. MFG. CODE 91929

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