

MAGNI	24	ISSUE	RELEASE	CATALOG		
TEMP RANGE	-40°C TO 150°C	-40°C TO 100°C	0°C TO 70°C	NUMBER	NUMBER	LISTING
OPERATE MAX	495	480	460	5	DR-1212-3	613 <b>SS</b> 4
RELEASE MIN	40	120	150			
DIFF MIN	33	33	33			
OPERATE MAX	600	580	560			
RELEASE MIN	50	150	185	4	PR-4415	613SS2
DIFF MIN	40	40	40			
OPERATE MAX						
RELEASE MIN						
DIFF MIN						

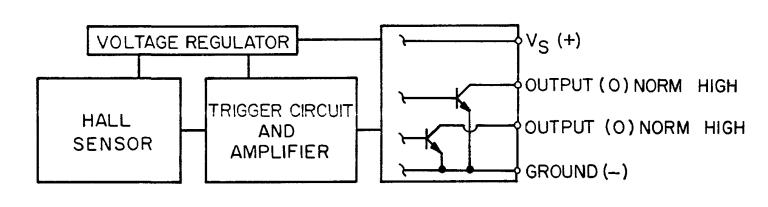
## ABSOLUTE MAXIMUM RATING

SUPPLY VOLTAGE (V <sub>S</sub> )	-1.2 TO +20 VOLTS DC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+20.0 VDC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.5 VOLTS MIN WITH SWITCH IN "OFF" OR "ON" CONDITION
LOAD ON OUTPUT	20MA
TEMPERATURE	-40°C TO +150°C OPERATING
MAGNETIC FLUX	NO LIMIT, THE CIRCUIT CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE

## **ELECTRICAL CHARACTERISTICS**

	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT S		3 mA 5 mA	10.0 mA 10.0 mA	PLUS LOAD CURRENT  V = 6 VOLTS  V = 16 VOLTS
OUTPUT VOLTAGE 4		0.15 VOLTS	0.4 VOLTS	SINKING 10 MA MAX
OUTPUT LEAKAGE CURRENT (RELEASED)			Αμ0 1	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING 10MA)				
RISE TIME		عبر a. 2	1.5 µs	10% TO 90%
FALL TIME		0.lµs	0.5 µs	90% TO 1 <b>0%</b>

CURRENT 4 (RELEASED)		A <b>پر</b> ۱ ا	LEAKAGE INTO SWITCH OUTPUT	
OUTPUT SWITCHING TIME (SINKING 10MA)				
RISE TIME	us 0.2	1.5 µs	10% TO 90%	
FALL TIME	0.1 <b>us</b>	a <b>ير</b> 0.5	90% TO 10%	
			THIRD ANGLE PROJECTION	
			SCALE	
			DO NOT SCALE PRINT	
			UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	
RIETARY ITEM AND IS THE PROPERTY OF NOT TO BE COPIED OR USED WITHOUT T			ONE PLACE (.0) $\pm .030$	
		LOTINO	$\longrightarrow$ Two places (00) + 015	



## BLOCK DIAGRAM SHOWING CURRENT SINKING OUTPUT

NOTES

TO ACTUATE THE DEVICE, THE SOUTH POLE OF THE MAGNET OR MAGNETIC FLUX GENERATOR MUST BE PRESENTED TO THE CENTER OF THE FRONT SURFACE OF THE DEVICE. (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.)

THE MAGNETIC FIELD STRENGTH (GAUSS) REQUIRED TO CAUSE THE SWITCH TO CHANGE STATE (OPERATE AND RELEASE) WILL BE AS SPECIFIED IN THE OPERATING CHARACTERISTICS. TO TEST THE SWITCH AGAINST THE SPECIFIED OPERATING CHARACTERISTICS, THE SWITCH MUST BE PLACED IN A UNIFORM MAGNETIC FIELD

CHARACTERISTICS, THE SWITCH MUST BE PLACED IN A UNIFORM MAGNETIC FIELD
CATALOG LISTING AND LOT NO. WILL BE STAMPED ON THE PACKAGE
AT SUPPLY VOLTAGE OF 6 TO 16 VDC AND OVER THE TEMPERATURE RANGE SPECIFIED

Vs IS THE UNREGULATED SUPPLY VOLTAGE

FEB 01 CHECK SAV 13 FEB 01 CHE

613SS SERIES CHART 1

DRAWN
RT 13 FEB 01

MICROSWITCH a Honeywell Division SOLID STATE SWITCH MAGNETICALLY OPERATED

613SS SERIES
CHART I

THREE PLACES (.000) ±.(
ANGLES ±
WEIGHT

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