

OPERATING CHARACTERISTICS

CHARACTERISTICS AT 4.5V \leq Vs \leq 60V, -40° C \leq T_A \leq 150°C, lo=15mA $\boxed{3}$ $\boxed{6}$

UNLESS OTHERWISE SPECIFIED

CHARACTERISTIC	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
SUPPLY VOLTAGE	V s		4.5	24.0	60.0	VOLTS
SUPPLY CURRENT	I s			3.6	10.0	mA
OUTPUT VOLTAGE (ON)	V _{SAT}	I o = 1 5mA		0.215	0.600	VOLTS
OUTPUT LEAKAGE CURRENT	ГОН				10.0	μА
OUTPUT CURRENT LIMITATION	IO(SCP)	SHORT CIRCUIT PROTECTION (1)	40			mA
RISE TIME	† r	T _A =25°C			1.5	μS
FALL TIME	† f	T _A =25°C			1.5	μS
ESD (HBM)	V _{ESD}	JEDEC JS-001-2014	+/-16			kV

⁽¹⁾ OUTPUT SHORT CIRCUIT PROTECTION

THE SENSOR TURNS OFF THE OUTPUT TRANSISTOR WHEN THE OUTPUT LOAD CURRENT EXCEEDS THE OUTPUT CURRENT LIMIT SPECIFIED IN THE OPERATING CHARACTERISTICS TABLE. THE OUTPUT REMAINS OFF UNTIL THE NEXT B>B_{OP} FIELD APPLICATION WHERE IT WILL RETRY TO TURN ON.

MAGNETIC CHARACTERISTICS

D

CHARACTERISTICS AT 4.5V \leq Vs \leq 60V, $T_A = 25^{\circ}C$ $\sqrt{3}\sqrt{6}$

CHARACTERISTIC	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
OPERATE	B _{OP}	T _A =25°C		25	65	GAUSS
RELEASE	B _{RP}	T _A =25°C	- 65	- 25		GAUSS
HYSTERESIS	B _{HYS}		30			GAUSS

ABSOLUTE MAXIMUM RATING 2

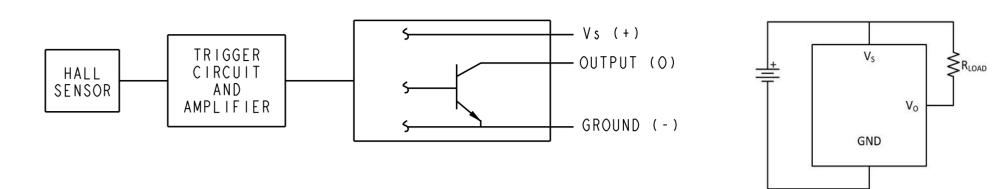
CHARACTERISTIC	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
OPERATING TEMPERATURE	T _A		- 40		150	°C
JUNCTION TEMPERATURE	TJ		- 40		165	°C
STORAGE TEMPERATURE	T _S		- 40		150	°C
THERMAL RESISTANCE	R _{OJA}				233	°C/W
SUPPLY VOLTAGE	V s		-0.5		60	VOLTS
OUTPUT VOLTAGE	۷٥		-0.5		60	VOLTS
OUTPUT CURRENT	10				NA ⁽²⁾	mA
MAGNETIC FLUX	-В				NO LIMIT	GAUSS

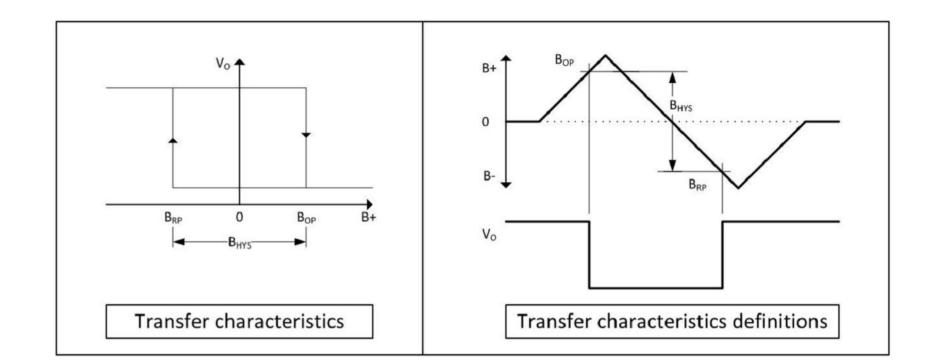
⁽²⁾ SEE OUTPUT CURRENT LIMITATION IN ELECTRICAL CHARACTERISTICS

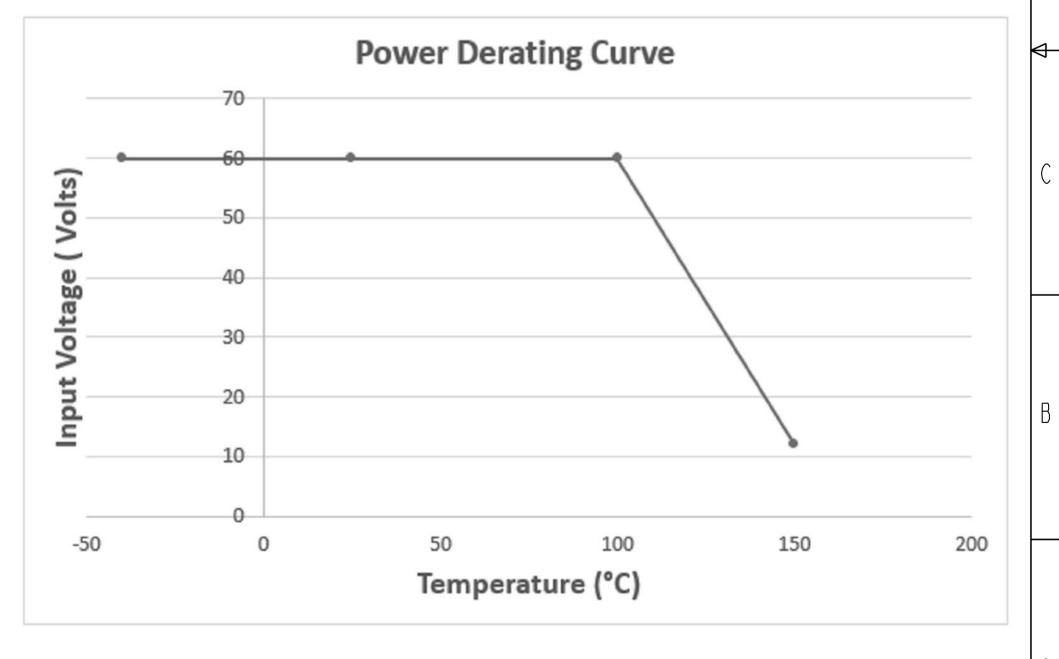
PRELIMINARY INFORMATION ONLY

THIS DRAWING IS NOT RELEASED. SUBJECT TO CHANGE WITHOUT REVISION LEVEL. SEE HONEYWELL CONFIDENTIAL FOR PROPRIETARY INFORMATION CONCERNING THIS DRAWING.

BLOCK DIAGRAM CURRENT SINKING OUTPUT









THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL.

Honeywell A2 1 SS30F6T SHEET SCALE NONE 3 OF 3

HONEYWELL INTERNATIONAL INC. UNPUBLISHED WORK. ALL RIGHTS RESERVED.

HONEYWELL CONFIDENTIAL COPYRIGHT © 2012

BASIC APPLICATION CIRCUIT