



# Types OHN3120U, OHS3120U

Electrical Characteristics ( $V_{CC} = 4.5 \text{ V}$  to  $24 \text{ V}$ ,  $T_A = 25^\circ \text{ C}$  unless otherwise noted)

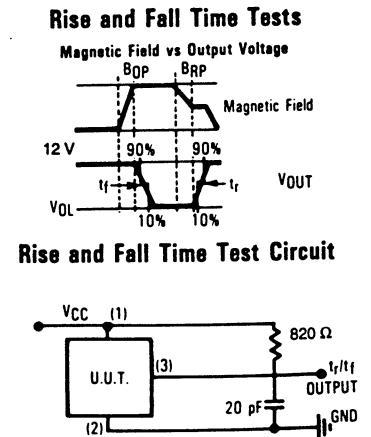
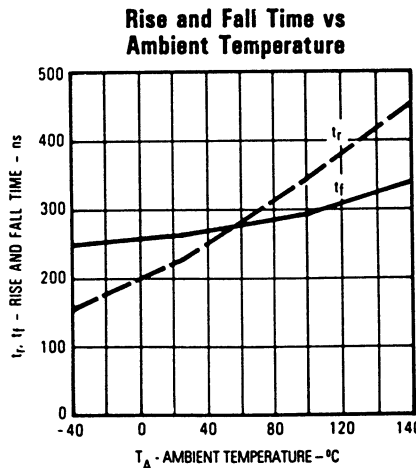
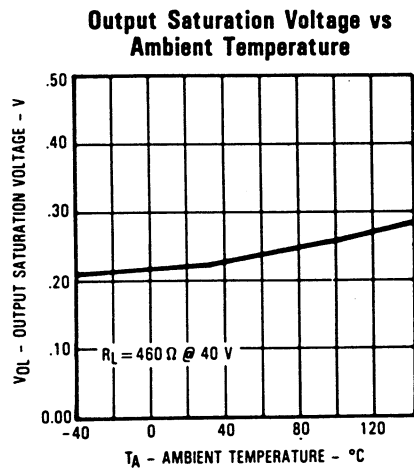
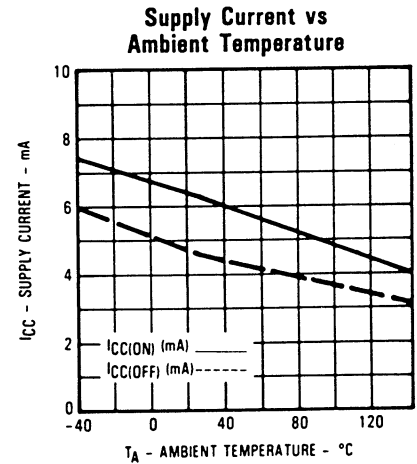
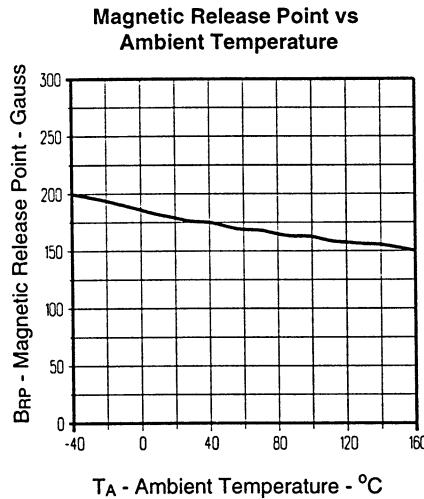
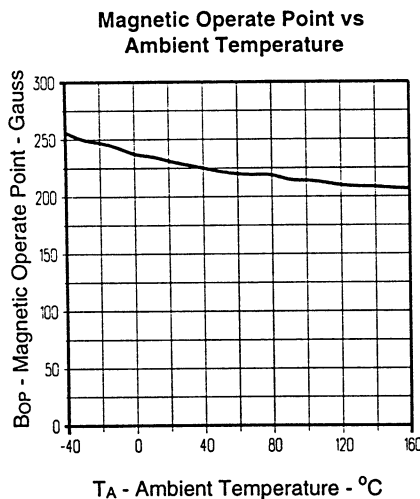
SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
$I_{CC}$	Supply Current		4	7	mA	$V_{CC} = 24 \text{ V}$ , Output Off
$V_{OL}$	Output Saturation Voltage		100	400	mV	$V_{CC} = 4.5 \text{ V}$ , $I_{OL} = 20 \text{ mA}$ , $B \geq 350 \text{ Gauss}$
$I_{OH}$	Output Leakage Current		0.1	10.0	$\mu\text{A}$	$V_{CC} = 4.5 \text{ V}$ , $V_{OUT} = 24 \text{ V}$ , $B \leq 50 \text{ Gauss}$
$t_r$	Output Rise Time		0.21	1.00	$\mu\text{s}$	$R_L = 820 \Omega$ , $C_L = 20 \text{ pF}$
$t_f$	Output Fall Time		0.25	1.00	$\mu\text{s}$	

## Magnetic Characteristics

CHARACTERISTICS	SYMBOL	$T_A = 25^\circ \text{ C}$		$T_A = -20^\circ \text{ C}$ to $85^\circ \text{ C}$		$T_A = -40^\circ \text{ C}$ to $125^\circ \text{ C}$		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
Operate Point <sup>(2)</sup>	$B_{OP}$	70	350	70	425	35	450	G
Release Point	$B_{RP}$	50	330	50	405	25	430	G
Hysteresis	$B_H$	20		20		20		G

(2) South pole facing symbolized surface.

## Typical Performance Curves



HALL EFFECT SENSORS