

Types OHN3175U, OHS3175U

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	$V_{CC} = 4.5\text{ V}$, $I_{OL} = 20\text{ mA}$, $B \geq 200\text{ Gauss}$
I_{OH}	Output Leakage Current		0.1	10.0	μA	$V_{CC} = 4.5\text{ V}$, $V_{OUT} = 24\text{ V}$, $B \leq -250\text{ Gauss}$
t_r	Output Rise Time		0.05	1.00	μs	$R_L = 820\ \Omega$, $C_L = 20\text{ pF}$
t_f	Output Fall Time		0.10	1.00	μs	

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 ⁽²⁾	B _{OP}	25	170	15	180	10	260	G
Release Point	B _{RP}	-170	-25	-180	-15	-260	-10	G
Hysteresis	B _H	100		80		60		G

(2) South pole facing symbolized surface.