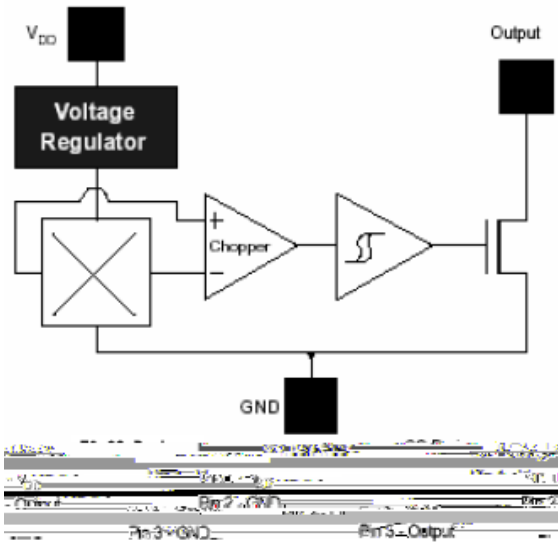


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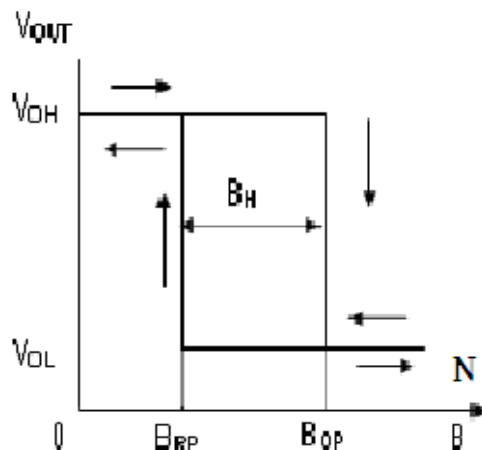
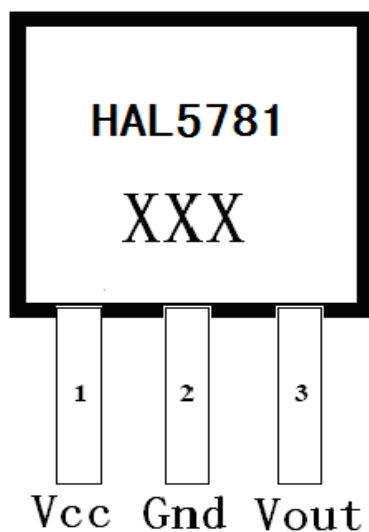
N  
N  
SOT-23TO-92  
HAL5781  
HAL5781HAL581

HAL5781(B<sub>OP</sub>)  
" 0"  
S(B<sub>RP</sub>)

CMOS3.5V



Supply Voltage (Operating) $V_{DD}$	24V
Supply Current (Fault) $I_{DD}$	50mA
Output Voltage $V_{out}$	24V
Output Current (Fault) $I_{out}$	50mA
Operating Temperature Range $T_a$	-40~150
Power Dissipation, temp. range $P_d$	500mW
Maximum Junction Temperature, temp. range $T_j$	165
Storage Temperature $T_s$	-65~150



### HAL5781

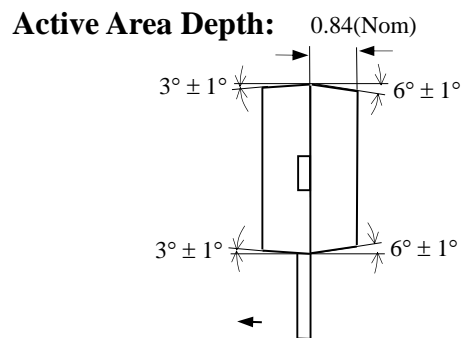
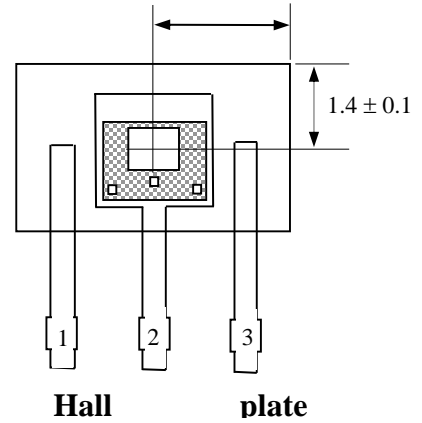
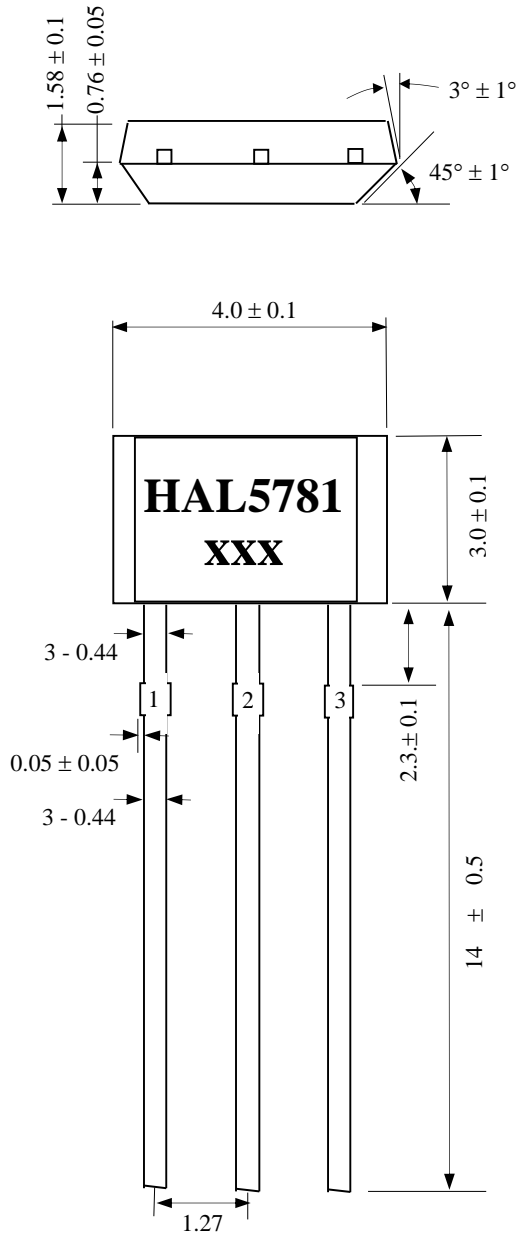
DC Operating Parameters:  $T_A = 25^\circ\text{C}$ ,  $V_{DD} = 12\text{VDC}$  (unless otherwise specified).

	$V_{DD}$	Operating	3.5		24	V
	$I_{DD}$	$B < B_{OP}$	1.5	2.5	5.0	mA
	$V_{DS(on)}$	$I_{OUT} = 20\text{ mA}$ , $B > B_{OP}$		0.4	0.5	V
	$I_{OFF}$	$B < B_{RP}$ , $V_{OUT} = 20\text{V}$		0.01	10.0	$\mu\text{A}$
	$t_r$	$V_{DD} = 12\text{V}$ , $R_L = 1.1\text{K } \Omega$ , $C_L = 20\text{pf}$		0.04		$\mu\text{s}$
	$t_f$	$V_{DD} = 12\text{V}$ , $R_L = 1.1\text{K } \Omega$ , $C_L = 20\text{pf}$		0.18	70.0	$\mu\text{s}$

### HAL5781

	$B_{OP}$	$T_A = 25^\circ\text{C}$ , $V_{DD} = 12\text{V DC}$	9.0	15.0	mT
	$B_{RP}$	$T_A = 25^\circ\text{C}$ , $V_{DD} = 12\text{V DC}$	4.0	12.0	mT
	$B_{hys}$	$T_A = 25^\circ\text{C}$ , $V_{DD} = 12\text{V DC}$	3.0	4.0	5.0

## 1 TO-92S

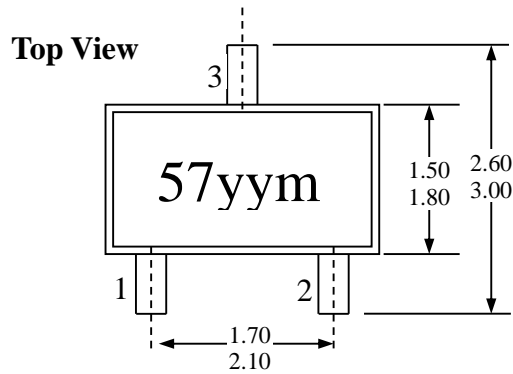


### Notes:

- 1). Controlling dimension : mm ;
- 2). Leads must be free of flash and plating voids ;
- 3). Do not bend leads within 1 mm of lead to package interface ;
- 4). PINOUT: Pin 1 VDD  
Pin 2 GND  
Pin 3 Output

### Marking:

HAL5781-- Code of Device(HAL5781) ;  
xxx -- Production Lot ;



**Notes:**

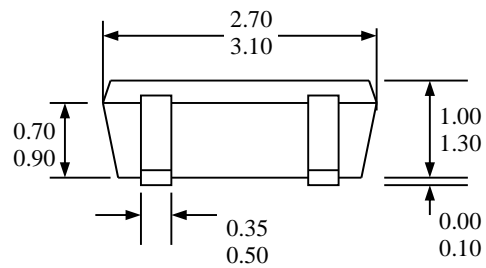
1). PINOUT: Pin 1 VDD  
Pin 2 Output  
Pin 3 GND

2). All dimensions are in millimeters ;

**Marking:**

57 -- Code of Device ( HAL5781 ) ;  
yy -- last 2 digit of year ;  
m -- "A"- "Z", Production Lot ;

**Side View**



**End View**

