

30V Stepper Motor Driver

Description

The SA8550 is a dual-channel low saturation voltage forward/reverse motor driver IC. It is optimal for motor drive in 12V or 24V system products and can drive a stepper motor in Full-step or two DC motor.

The output driver block of each H-bridge consists of N-channel power MOSFETs configured as an H- bridge to drive the motor windings. Each H-bridge includes circuitry to regulate or limit the winding current. Internal shutdown functions are provided for under-voltage lockout, over current protection and over temperature. A low-power sleep mode is also provided.

The SA8550 is available in a compact ESOP8 and SOP10 package.

FEATURES

- VM max=32V, IO max = 1.2A
- $R_{DS(on)}$: 730-m Ω (HS + LS)
- H-Bridge Motor Driver
- Over current protection
- Over temperature protection
- UVLO protection
- Low-Power Sleep Mode
- ESOP8 and SOP10 Package

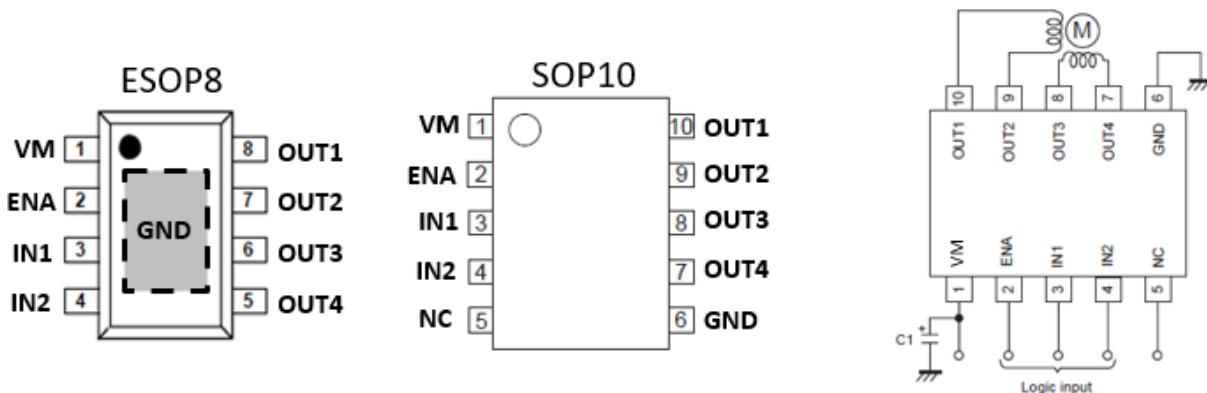
Applications

- Stage Lighting
- Refrigerator
- Vacuum Cleaner
- POS Printer
- Any Relevant Stepper Motor Applications.

Device Information

Part No.	Package	Quantity
SA8550	ESOP8	4000/Reel
SA8550	SOP10	4000/Reel

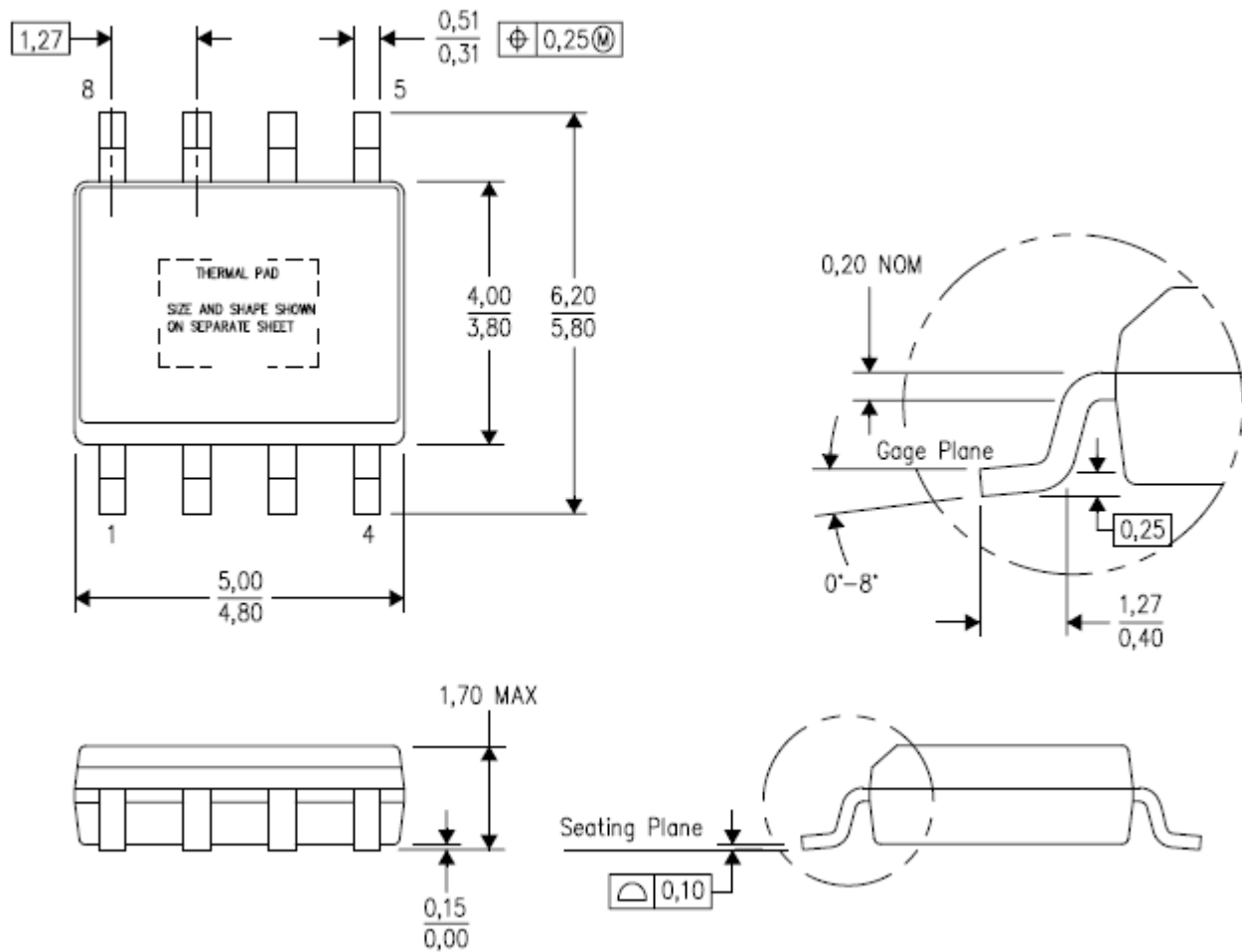
SA8550 Package & Simplified Schematic



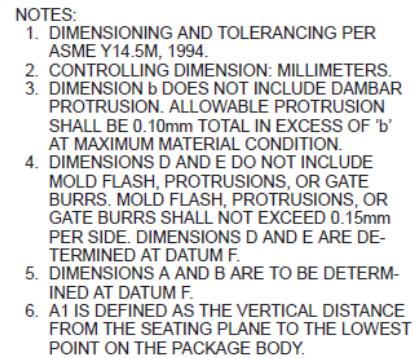
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Package Information

ESOP8



SOP10



DIM	MILLIMETERS	
	MIN	MAX
A	1.25	1.75
A1	0.10	0.25
A3	0.17	0.25
b	0.31	0.51
D	4.80	5.00
E	3.80	4.00
e	1.00 BSC	
H	5.80	6.20
h	0.37 REF	
L	0.40	1.27
L2	0.25 BSC	
M	0°	8°

Technical drawing of a 5-pin DIN connector showing dimensions in millimeters. The drawing includes a top view and a side view. The top view shows a row of five pins with a pitch of 1.00 mm. The side view shows the pins with a height of 6.50 mm. The drawing is labeled with dimensions: 10X 0.58, 1.00 PITCH, 6.50, and 10X 1.18. The text "DIMENSION: MILLIMETERS" is at the bottom.

Ver1.0

30V Stepper Motor Driver**IMPORTANT NOTICE**

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