

1.5A, 2.7V-20V Dual H-Bridge Motor Driver

Description

The SA8833 is a bipolar stepper-motor driver with dual, built-in full-bridges consisting of N channel power MOSFETs.

It operates from a supply voltage range of 2.7V to 20V and can deliver motor current up to 1.5A per channel. The internal safety features include overcurrent protection, short-circuit protection, sinking and sourcing current limits implemented with external sensors, under-voltage lockout and thermal shutdown. Internal An over-temperature output flag is available to indicate thermal shutdown.

The SA8833 is available in 16-pin, 5.0mm×6.4mm TSSOP-EP and TSSOP, 3mm×3mm and 4mm×4mm QFN package with an exposed thermal pad on the back.

Features

- Wide 2.7-20V Input Voltage Range
- Continuous current up to 1.5A
- $R_{DS(on)}$: 730mΩ (HS+LS)
- Low Quiescent Current
- Low Sleep Current
- Thermal Shutdown protection
- Under-Voltage Lockout Protection
- Over-Current Protection
- Over-Temperature Output Flag
- PWM Winding Current Regulation and Current Limiting
- HTSSOP16, QFN4X4-16 Package

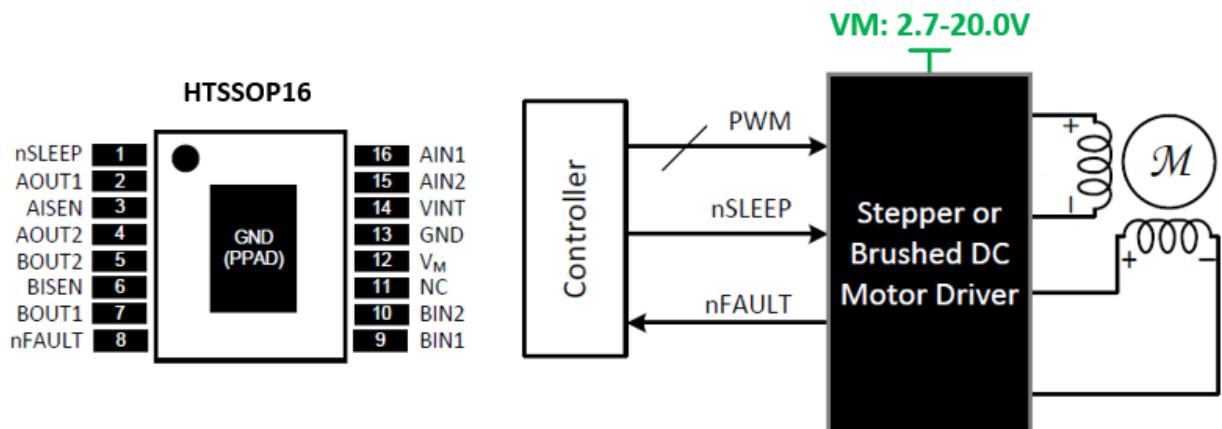
Applications

- POS Printers
- Video Security Camera
- Digital Still Cameras
- Battery Powered Toys

Device Information

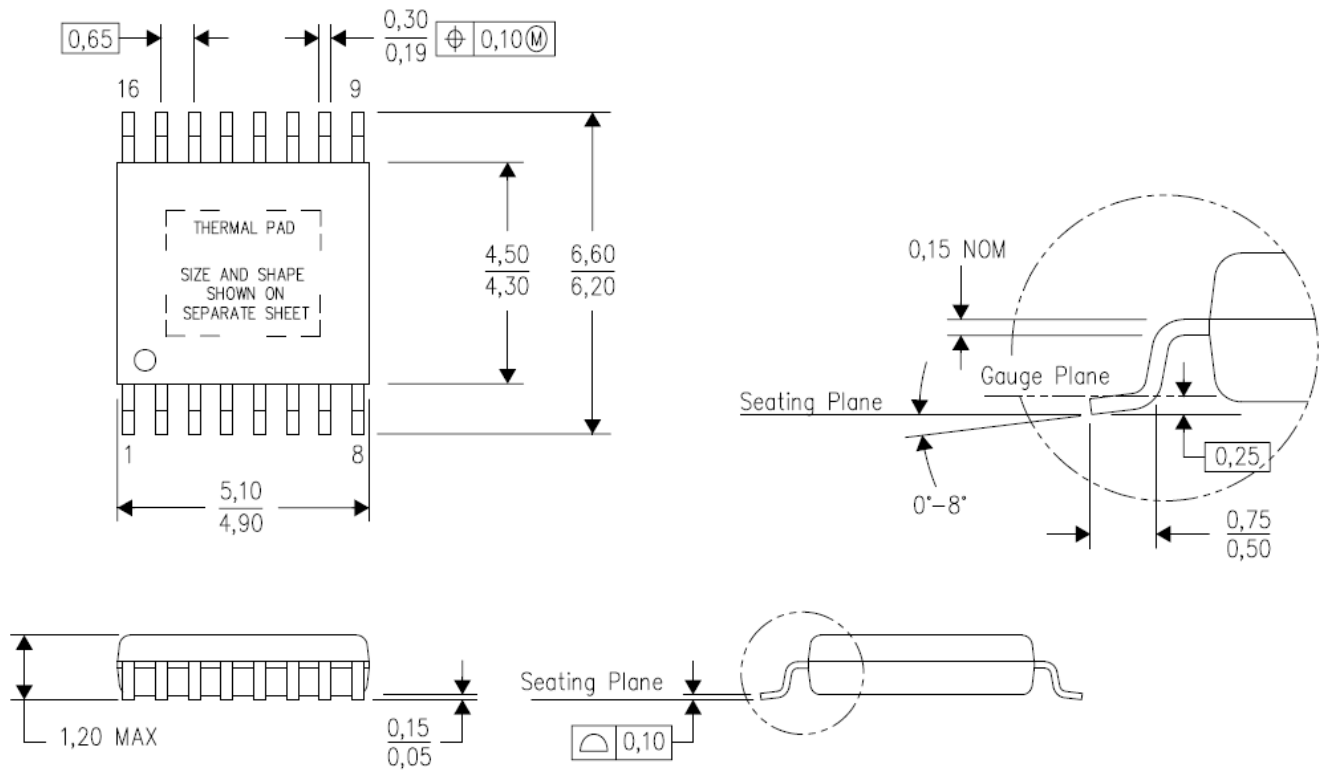
Part No.	Package	Quantity
SA8833	HTSSOP16	3000/Reel
	QFN4X4-16	4000/Reel

SA8833 Package & Simplified Schematic



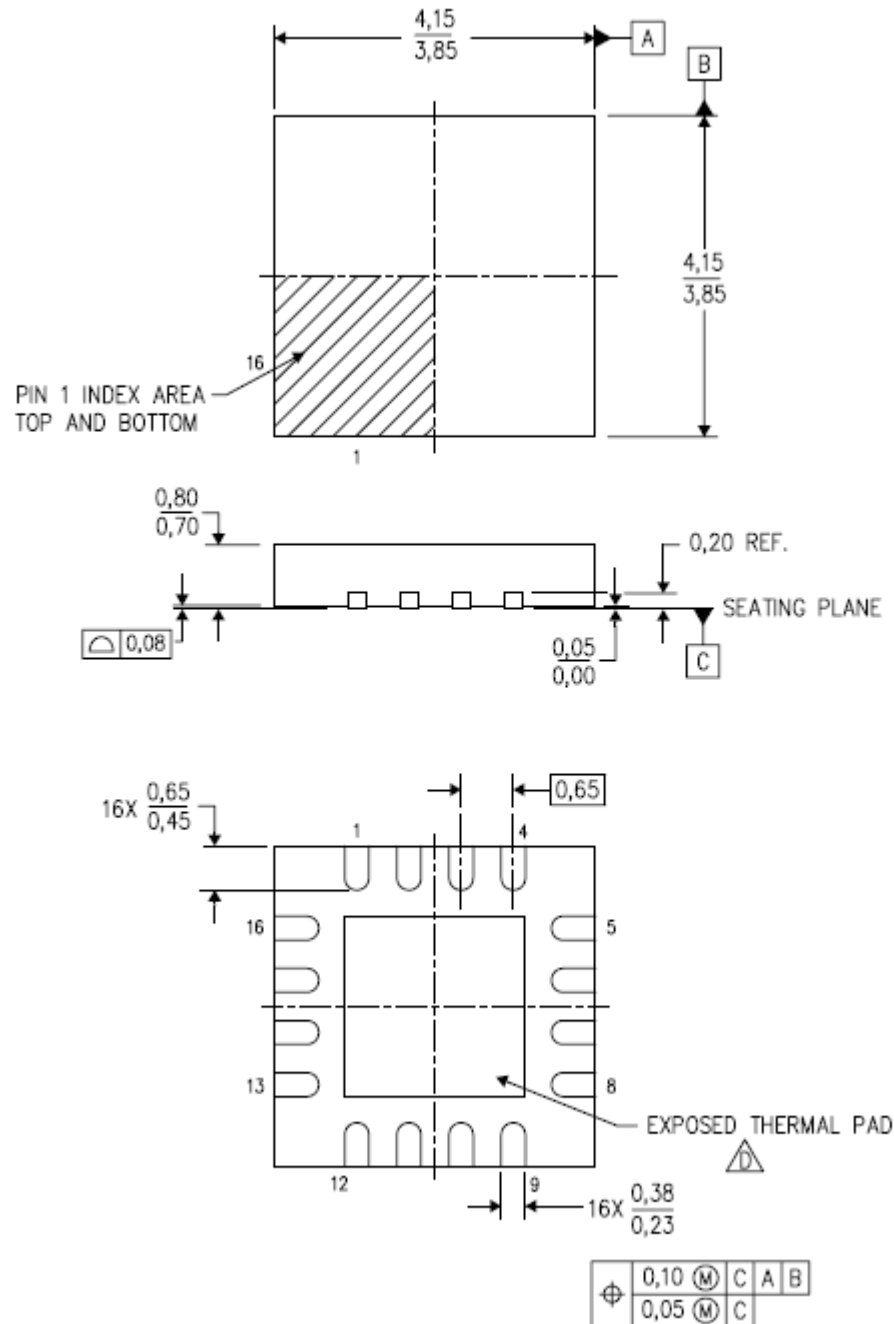
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Package HTSSOP16



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QFN4X4-16



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