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New Product Announcement

PAM8016

Optimized Driver for ERM & LRA Haptic Elements

The PAM8016 is a haptic driver designed with low latency, high efficiency, and greater drive strength capable for driving Linear Resonance Actuator (LRA) & Eccentric Rotating Mass (ERM) haptic elements, which are commonly used for tactile feedback.

The PAM8016 supports a wide range of inputs, differential, single-ended or PWM inputs that eases the host micro-controller drive the haptic element.

Its short-circuit protection and thermal shutdown provides the optimal system protection.

The PAM8016 is available in U-FLGA1515-9 package.

The Diodes Advantage

PAM8016 provides a flexible haptic driver solution for ERM and LRA device

- **Flexible Haptic/Vibra driver support for LRA (Linear Resonance Resonator) or ERM (Eccentric Rotating Mass) device**
- **Wide supply voltage from 2.8V to 5.5V with differential or single-ended input supported**
  - Operates from same voltage as host MCU or processor
- **High efficiency up to 90%, Low Shutdown current < 1μA**
  - Low-power for portable applications
- **Quick startup (4ms startup time)**
  - Meets haptic devices requirements
- **UVLO, Over-Temp Protection, Short-Circuit Protection**
  - Improved system reliability

Applications

- Mobile Phone
- Wearable Devices
- Joystick, Jog Dial Mice
- ePOS
- Tablet
- Toys

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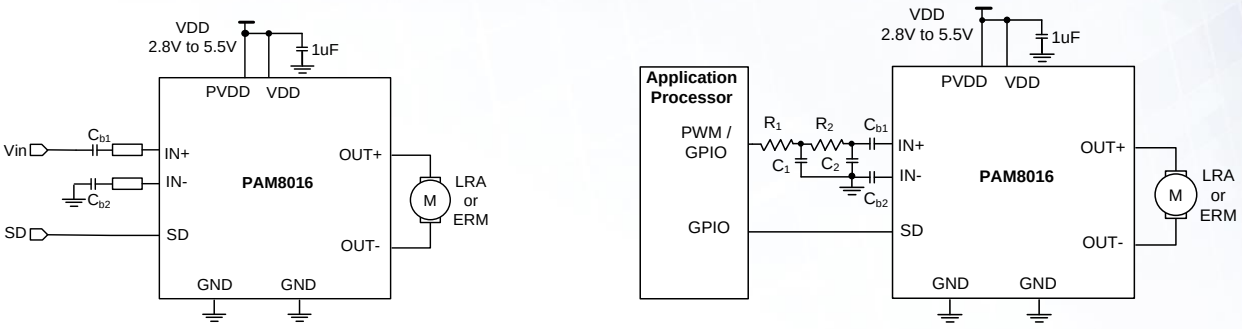
Typical Application



PAM8016 simplified configurations for typical single-ended analog inputs or PWM inputs

Product Portfolio

Product	Description	Vin (V)	IQ (mA)	Efficiency	Gain (dB)	SNR (dB)	PSRR (dB)	Package
PAM8016	Flexible Haptic Driver for ERM & LRA	2.8 – 5.5	5	93%	18	95	-70	U-FLGA1515-9

Ordering Information

Device	Packaging	Part Mark	Reel size	Tape width	Quantity
PAM8016AKR	U-FLGA1515-9	BW	7”	8mm	3,000