



Product Overview

LC898300XA: Linear Vibrator Driver

For complete documentation, see the data sheet

Product Description

LC898300XA is a Linear Vibrator Driver IC for a haptics and a vibrator installed in mobile equipments. The best feature is it can adjust the drive frequency to the resonance frequency of the linear vibrator automatically without external parts. As a result, the vibration power is not influenced by the difference of the resonance frequency and it is not necessary to care about the shift of resonance frequency with the lapse of time or the impact of fall. And it is possible to improve the brake performance with the automatic brake function. Moreover, it is possible to reduce the power consumption by highly effective drive.

Features

- Automatic adjustment to the individual resonance frequency
- Automatic brake function
- Initial drive frequency adjustment function
- Drive voltage adjustment with I²C IF setting
- Various drive pattern with I²C IF setting (1.8V IF is available)
- Low driving noise
- Low power consumption by highly effective drive (100degree drive)

Benefits

- The vibration power is not influenced by the difference of the resonance frequency and it is not necessary to care about the shift of resonance frequency with the lapse of time or the impact of fall.
- It is possible to improve the brake performance with the automatic brake function.
- It is possible to reduce the power consumption by highly effective drive.

Applications

- Linear Vibrator (Vibration and haptics)

End Products

- Mobile equipment with haptics function
- Mobile Phone
- Portable Game

Part Electrical Specifications

Product	Compliance	Status	Type	V _M Min (V)	V _M Max (V)	V _{CC} Min (V)	V _{CC} Max (V)	I _O Max (A)	I _O Peak Max (A)	Step Reso lution	Cont rol Type	Feed back Meth od	Curr ent Sens e	Reg ulato r Outp ut	Fault Dete ction	Flyb ack Prot ectio n	R _{DS(on)} Typ ()	Pack age Type
LC898300XA-MH	Pb-free Halide free	Active	Drive rs	2.7	3.3	2.7	3.3	0.15			I2C	Back EMF /Sen sorle ss	Non e				4	WLC SP-9 / WLP -9

For more information please contact your local sales support at www.onsemi.com

Created on: 7/11/2015