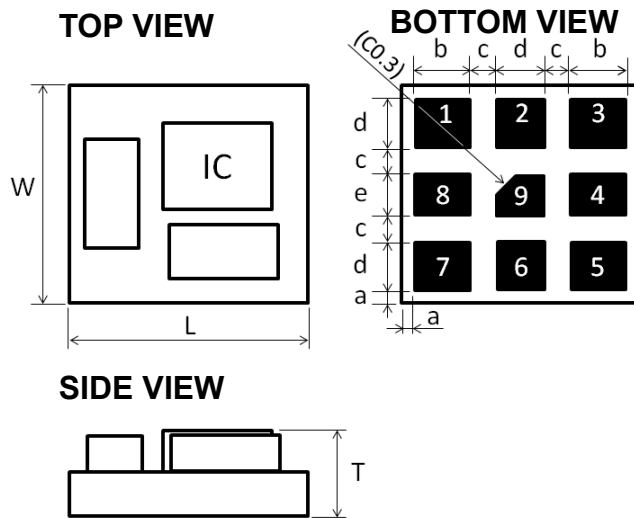


## 1. Features

- Step-Down DCDC Converter
- Low EMI noise and small footprint using inductor-imbedded ferrite substrate
- High efficiency using synchronous rectifier technology and PFM/PWM auto-select function
- Input voltage range : 2.5 - 5.5V
- Output voltage range : 1.0 - 3.3V
- Maximum Load Current : 1A
- Switching frequency : 4MHz

## 2. Mechanical details



unit (mm)

Symbol	Dimension	Symbol	Dimension
L	3.5+/- 0.2	a	0.2+/- 0.2
W	3.2+/- 0.2	b	0.8+/- 0.1
T	1.3MAX	c	0.4+/- 0.1
		d	0.7+/- 0.1
		e	0.6+/- 0.1

## Pin configuration

Pin number	Symbol	I/O	Function
1	EN	Input	ON/OFF control pin H: Enable L: Disable
2,3,5,6,9	GND	—	GND pin
4	Vout	Output	Voltage output pin
7	MODE	Input	Operation mode select pin H: Forced PWM mode, L: PFM/PWM mode
8	Vin	Input	Voltage input pin

### 3. Ordering Information

Part number	Output Voltage	Device Specific Feature	MOQ
LXDC3EP10A-176	1.0V		T/R,1000pcs/R
LXDC3EP12A-104	1.2V		T/R,1000pcs/R
LXDC3EP15A-105	1.5V		T/R,1000pcs/R
LXDC3EP18A-106	1.8V		T/R,1000pcs/R
LXDC3EP25A-109	2.5V		T/R,1000pcs/R
LXDC3EP33A-107	3.3V		T/R,1000pcs/R

### 4. Electrical Specification

#### 4-1 Absolute maximum ratings

Parameter	symbol	rating	Unit
Maximum input voltage	V <sub>in</sub>	6.0	V
Operating temperature	T <sub>OP</sub>	-30 to +85	°C
Storage temperature	T <sub>STO</sub>	-30 to +85	°C

#### 4-2 Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Operational Input voltage	V <sub>in</sub>	LXDC3EP10A-176	2.5	3.7	5.5	V	
		LXDC3EP12A-104					
		LXDC3EP15A-105					
		LXDC3EP18A-106					
		LXDC3EP25A-109	3.0	3.7	5.5		
		LXDC3EP33A-107	4.0	5.0	5.5		
UVLO	UVLO			2.2		V	
Output voltage	V <sub>out</sub>	PWM Mode V <sub>in</sub> -V <sub>out</sub> >0.7V	LXDC3EP10A-176	0.976	1.0	1.024	V
			LXDC3EP12A-104	1.176	1.2	1.224	
			LXDC3EP15A-105	1.47	1.5	1.53	
			LXDC3EP18A-106	1.764	1.8	1.836	
			LXDC3EP25A-109	2.45	2.5	2.55	
			LXDC3EP33A-107	3.234	3.3	3.366	
Load Current	I <sub>out</sub>		0	-	1000	mA	