

FEATURES

- Dual Channel Ultra Low Dropout Voltage
- Master (Channel 1) - Slave (Channel 2) Configuration
- Compatible with low ESR MLCC as Input / Output Capacitor
- Guaranteed Output Current of 600 / 600mA
- Available in SOP8 and SOP8-PP
- Fixed Output Voltage: 1.0V ~ 3.6V
- Over-Temperature Protection
- Over-Current Protection

APPLICATION

- LCD TVs and SETTOP Boxes
- Battery Powered Equipment
- Motherboards and Graphic Cards
- Microprocessor Power Supplies
- Peripheral Cards
- High Efficiency Linear Regulators
- Battery Chargers

DESCRIPTION

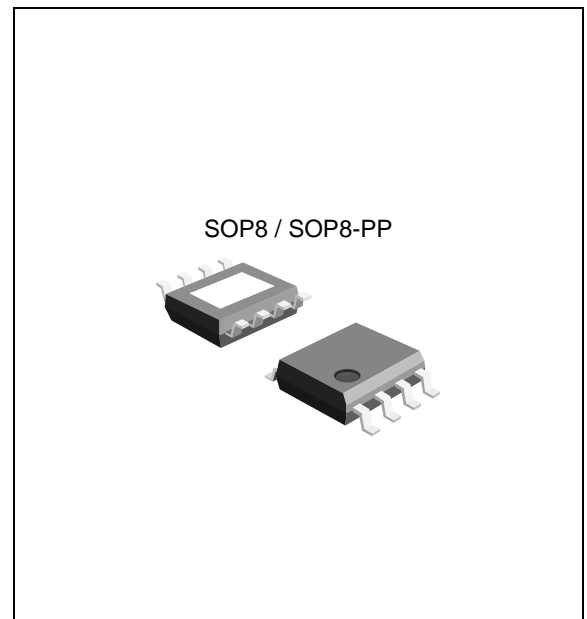
The LM2C1117 is a dual channel ultra low-dropout voltage regulator capable of sourcing 0.6A per channel with low dropout voltage and operates from 2.5V to 5.5V input supply. The device is designed to have a fast transient response and is stable with 1 μ F low ESR capacitor. It is available in fixed output-voltage variants from 1.0V to 3.6V for each channel.

The LM2C1117 features master and slave configuration. Channel 1 is the master channel and generates reference voltage. Channel 2 is the slave channel and uses reference voltage generated from channel 1. To operate channel 2, channel 1 must be turned on.

ABSOLUTE MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	MIN.	MAX.	UNIT
Input Supply Voltage (Survival)	V _{IN1} , V _{IN2}	-	6.5	V
Enable Input Voltage (Survival)	V _{EN1} , V _{EN2}	-	6.5	V
Maximum Continuous Output Current	I _{MAX}	-	600 / 600	mA
Lead Temperature	T _{SOL}		260	°C
Storage Temperature Range	T _{STG}	-65	150	°C
Operating Junction Temperature Range	T _{JOPR}	-40	125	°C
Package Thermal Resistance *	$\Theta_{JA-SOP8-PP}$	68		°C/W
	$\Theta_{JC-SOP8-PP}$	15		

* Calculated from package in still air, mounted to 2.6mm X 3.5mm(minimum foot print) 2 layer PCB without thermal vias per JESD51 standards.

**ORDERING INFORMATION**

Device	Package
LM2C1117GD-XXYY	SOP8
LM2C1117GDP-XXYY	SOP8-PP

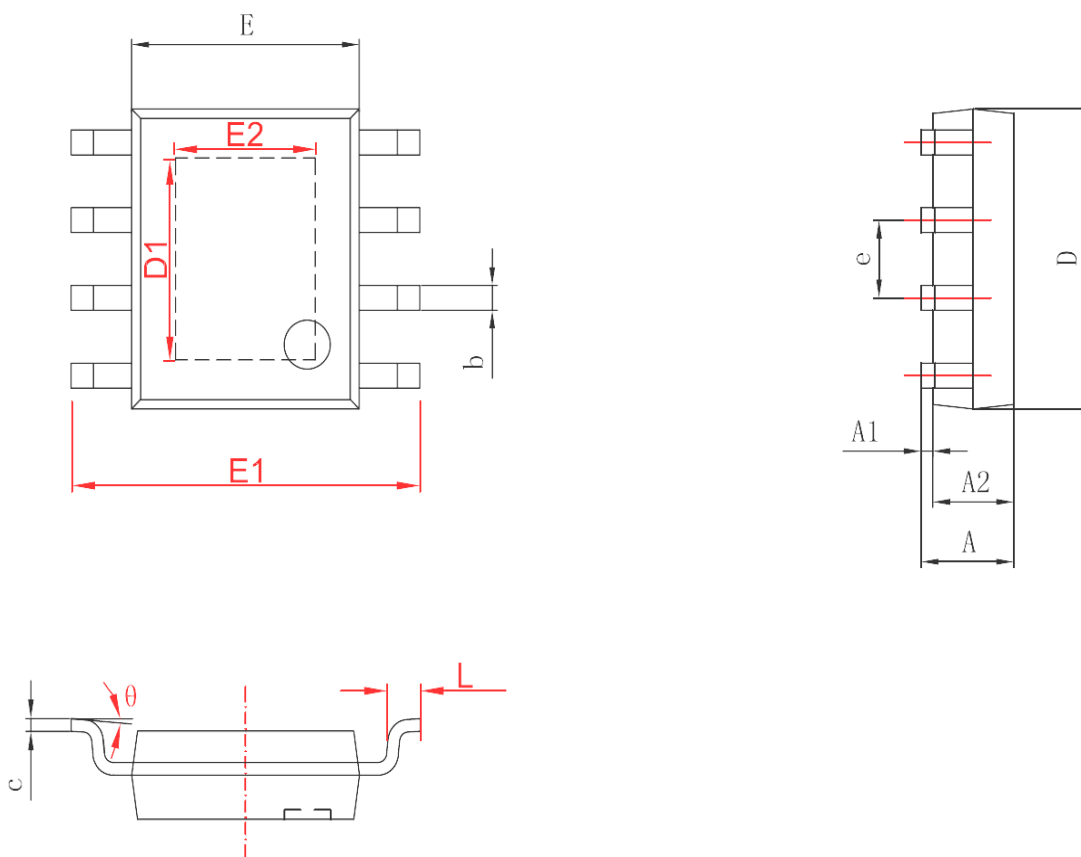
XX : Output Voltage Code of Channel 1 (VOUT1)

YY : Output Voltage Code of Channel 2 (VOUT2)

Please contact us for more information about this product.

Package Dimension

SOP-8 & SOP-8PP



SYMBOL	Dimension In Millimeters		Dimension In Inches	
	Min	Max	Min	Max
A	1.350	1.750	0.053	0.069
A1 (for SOP-8)	0.100	0.250	0.004	0.010
A1 (for SOP-8PP)	0.050	0.150	0.004	0.010
A2	1.350	1.550	0.053	0.061
b	0.330	0.510	0.013	0.020
c	0.170	0.250	0.006	0.010
D	4.700	5.100	0.185	0.200
D1 (for SOP-8PP)	3.202	3.402	0.126	0.134
E	3.800	4.000	0.150	0.157
E1	5.800	6.200	0.228	0.244
E2 (for SOP-8PP)	2.313	2.513	0.091	0.099
e	1.270(BSC)		0.050(BSC)	
L	0.400	1.270	0.016	0.050
θ	0°	8°		