

**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**

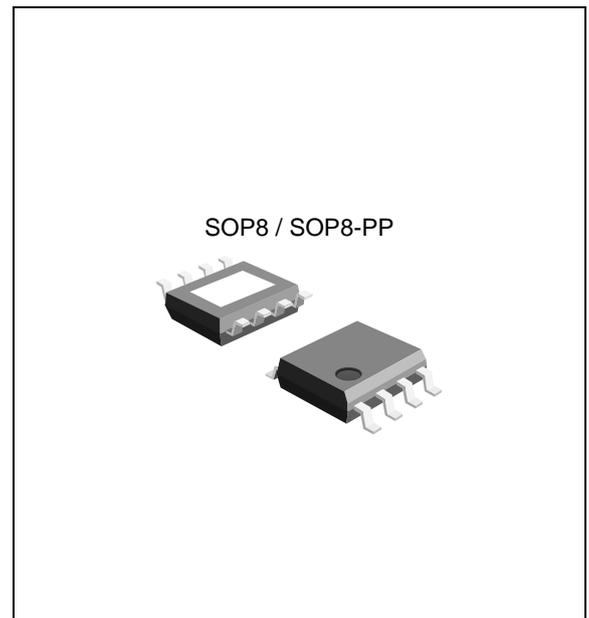
The LM2C1117 is a dual channel ultra low-dropout voltage regulator capable of sourcing 0.6A per channel with low dropout voltage and operates from 2.5V to 5.5V input supply. The device is designed to have a fast transient response and is stable with 1 $\mu$ F low ESR capacitor. It is available in fixed 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 <sub>IN1</sub> , V <sub>IN2</sub>	-	6.5	V
Enable Input Voltage (Survival)	V <sub>EN1</sub> , V <sub>EN2</sub>	-	6.5	V
Maximum Continuous Output Current	I <sub>MAX</sub>	-	600 / 600	mA
Lead Temperature	T <sub>SOL</sub>		260	°C
Storage Temperature Range	T <sub>STG</sub>	-65	150	°C
Operating Junction Temperature Range	T <sub>JOPR</sub>	-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.