

FEATURES

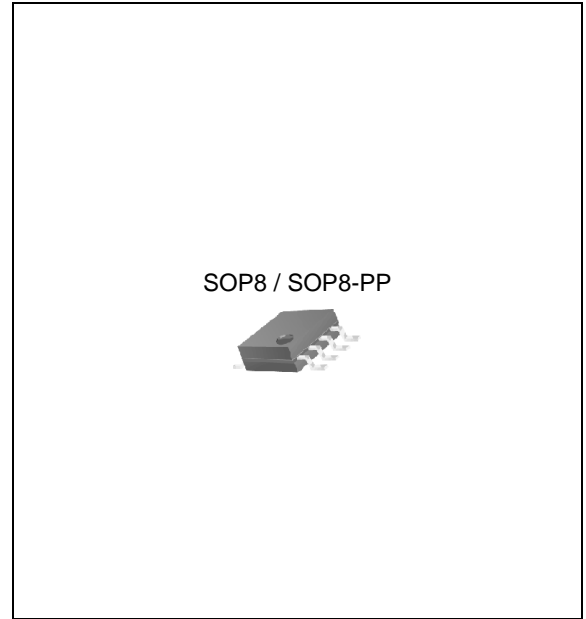
- Dual Channel Ultra Low Dropout Voltage
- Compatible with low ESR MLCC as Input / Output Capacitor
- Good Line and Load Regulation
- Guaranteed Output Current of 600/600mA
- Available in SOP8, SOP8-PP
- Fixed Output Voltage: 1.0V ~ 3.3V
- Over-Temperature Protection
- Over-Current Protection

APPLICATION

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

DESCRIPTION

The TJ5641 of two channels high performance ultra-low dropout linear regulators operates from 2.5V to 5.5V input supply and provides ultra-low dropout voltage with low ground current. These ultra-low dropout linear regulators respond fast to step changes in load which makes them suitable for low voltage micro-processor applications. The TJ5641 is developed on a CMOS process technology which allows low quiescent current operation independent of output load current. This CMOS process also allows the TJ5641 to operate under extremely low dropout conditions.



ORDERING INFORMATION

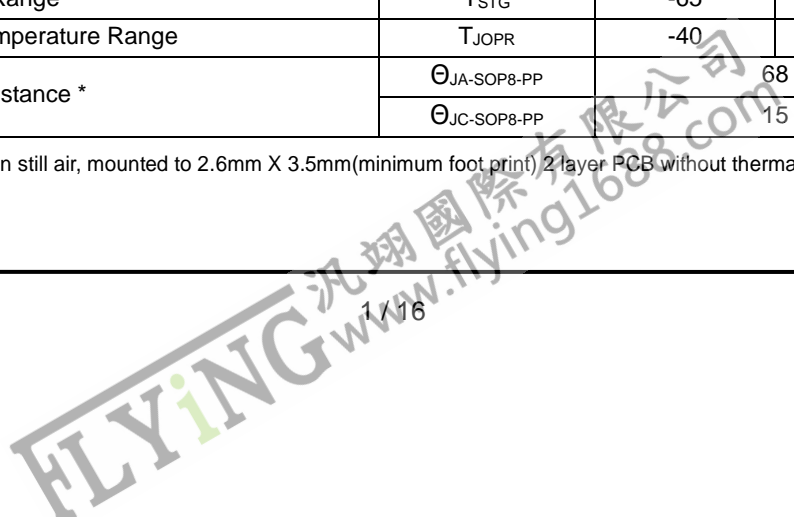
Device	Package
TJ5641GD-XXYY	SOP8
TJ5641HGD-XXYY	
TJ5641GDP-XXYY	SOP8-PP
TJ5641HGDP-XXYY	

XX : Output Voltage code of channel 1 (VOUT1)
 YY : Output Voltage code of channel 2 (VOUT2)

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.



Please contact us for more information about this product.

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