

Product Information

LDO Regulator IC with On/Off Control TK111xxCS

DESCRIPTION

The TK111xxCS is a low dropout linear regulator with ON/OFF control, which can supply 200mA load current. The output voltage, trimmed with high accuracy, is available from 1.5 to 10.0V in 0.1V steps.

FEATURES

- High Voltage Accuracy ±1.5% or ±50mV
- Superior Phase Compensation to Previous Model
- Very Good Stability: Ceramic capacitor can be used.
- Very Low Dropout Voltage: Vdrop=80mV at I_{OUT}=50mA
- Active High On/Off Control
- Excellent Ripple Rejection Ratio: -80dB at 1kHz
- Very Low Noise with Noise Bypass pin
- Short Circuit Protection (Over Current Protection)
- Thermal Shutdown (Over Heat Protection)
- Reverse Bias Protection

APPLICATIONS

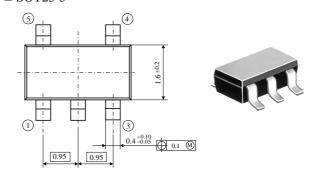
- Battery Powered Systems
- Mobile Communication Systems: Cordless Phone, GSM, PHS, PDC, CDMA, Base Station of Mobile Phones etc.
- Industrial Equipment: Personal Computer, Barcode Reader etc.
- Measurement System etc.

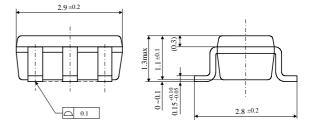
ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value (TYP)	Unit
Operating Voltage Range	V_{OP}	1.8~14.0	V
Operating Temp. Range	T _{OP} -30~+80		°C
Dropout Voltage	Vdrop	80@Iout=50mA	mV
Output Current	Iout	200	mA
Maximum Output Current	Iout _{MAX}	320	mA
Supply Current	I_{CC}	63.0	μΑ
Standby Current	Istandby	0.0	μΑ
Control Current	Icont	5.0	μΑ
Control Voltage	Vcont	1.6~: Vout on ~0.6: Vout off	V

PACKAGE OUTLINE

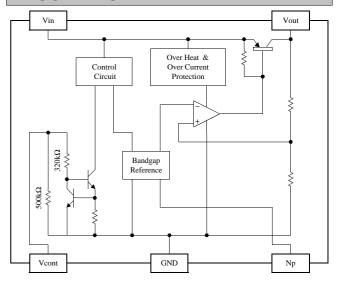
■ SOT23-5





Unit : mm

BLOCK DIAGRAM



OUTPUT VOLTAGE										
2.0	2.8	2.9	3.0	3.2	3.3	3.8	4.0	4.7	5.0	

*If other voltages are required, please contact the TOKO Sales Offices/Distributors for availability.