

Voltage Regulator ICs (Surface Mounting) ボルテージレギュレータIC(表面実装用)



TK119□□M Series

Features

- Small difference between input and output voltages. (0.16V at $I_o = 30\text{mA}$)
- Low current consumption. ($140\mu\text{A}$ at $I_o = 0\text{mA}$, $65\mu\text{A}$ at OFF mode)
- Built-in reset function
- Over current protection provided.
- Over heating preventer provided.
- ON/OFF control possible for output voltage. (High-level OFF)
- Noise reduction available on

Specifications

Item	Standard
Input Voltage Range	1.8 to 16V
No Load Input Current	$140\mu\text{A}$
Line Regulation	$\pm 0.5\text{mV/V}$; $V_{in} = (V_o + 1) \sim (V_o + 10) \leq V_{cc} \text{ Max.}$
Load Regulation	25mV ; $I_o = 1\text{mA} \sim 80\text{mA}$

特長

- 入出力電圧差が小さい ($I_o = 30\text{mA}$ 時、0.16V)
- 低消費電流 ($I_o = 0\text{mA}$ 時 $140\mu\text{A}$ 、出力OFF時 $65\mu\text{A}$)
- リセット機能付
- 過電流保護回路内蔵
- 過熱保護回路内蔵
- 出力電圧ON/OFF制御可能 (ハイレベル・オフ)
- ノイズ低減端子付

Item	Standard
Output Current, Max.	100mA
Output Voltage	2.25 to 5.0V (0.25V steps)
Output Voltage Tolerance	Depend on output voltage



TK11900M

Features

- Small difference between input and output voltages. (0.16V at $I_o = 30\text{mA}$)
- Low current consumption. ($140\mu\text{A}$ at $I_o = 0\text{mA}$, $65\mu\text{A}$ at OFF mode)
- Variable output type.
- Over current protection provided.
- Over heating preventer provided.
- ON/OFF control possible for output voltage. (High-level OFF)
- Noise reduction available on

Specifications

Item	Standard
Input Voltage Range	1.8 to 16V
No Load Input Current	$140\mu\text{A}$
Line Regulation	$\pm 0.5\text{mV/V}$; $V_{in} = (V_o + 1) \sim (V_o + 10) \leq V_{cc} \text{ Max.}$
Load Regulation	25mV ; $I_o = 1\text{mA} \sim 80\text{mA}$

特長

- 入出力電圧差が小さい ($I_o = 30\text{mA}$ 時、0.16V)
- 低消費電流 ($I_o = 0\text{mA}$ 時 $140\mu\text{A}$ 、出力OFF時 $65\mu\text{A}$)
- 出力電圧可変タイプ
- 過電流保護回路内蔵
- 過熱保護回路内蔵
- 出力電圧ON/OFF制御可能 (ハイレベル・オフ)
- ノイズ低減端子付

Item	Standard
Output Current, Max.	100mA
Output Voltage	1.5 to 15V (Variable)
Output Voltage Tolerance	Depend on output voltage



TK712□□M / TK713□□M Series

Features

- Small difference between input and output voltages. (0.1V at $I_o = 30\text{mA}$)
- Low current consumption. ($140\mu\text{A}$ at $I_o = 0\text{mA}$)
- Very stable output
- Over current protection provided.
- Over heating preventer provided.
- Ultra small package (SOT25)
- Noise reduction available on (TK712□□M)
- Built-in shutdown control on (TK713□□M)

Specifications

Item	Standard
Input Voltage Range	1.4 to 14V
No Load Input Current	$140\mu\text{A}$
Line Regulation	30mV ; $V_{in} = (V_o + 1) \sim (V_o + 10) \leq V_{op} \text{ Max.}$
Load Regulation	40mV ; $I_o = 1\text{mA} \sim 60\text{mA}$

特長

- 入出力電圧差が小さい ($I_o = 30\text{mA}$ 時、0.1V)
- 消費電流が少ない ($I_o = 0\text{mA}$ 時 $140\mu\text{A}$)
- 出力変動が少ない
- 過電流保護回路内蔵
- 過熱保護回路内蔵
- 超小形パッケージ (SOT25)
- ノイズ低減端子付 (TK712□□M)
- 出力電圧ON/OFF制御可能 (TK713□□M)

Item	Standard
Output Current, Max.	140mA
Output Voltage	1.5 to 5.5V (0.25V step)
Output Voltage Tolerance	Depend on output voltage