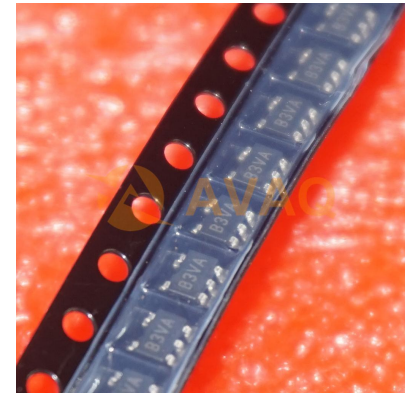



**LDO Regulator Pos 3V 0.1A Automotive Medical 5-Pin SOT-23  
T/R**



Images are for reference only

[Inquiry](#)

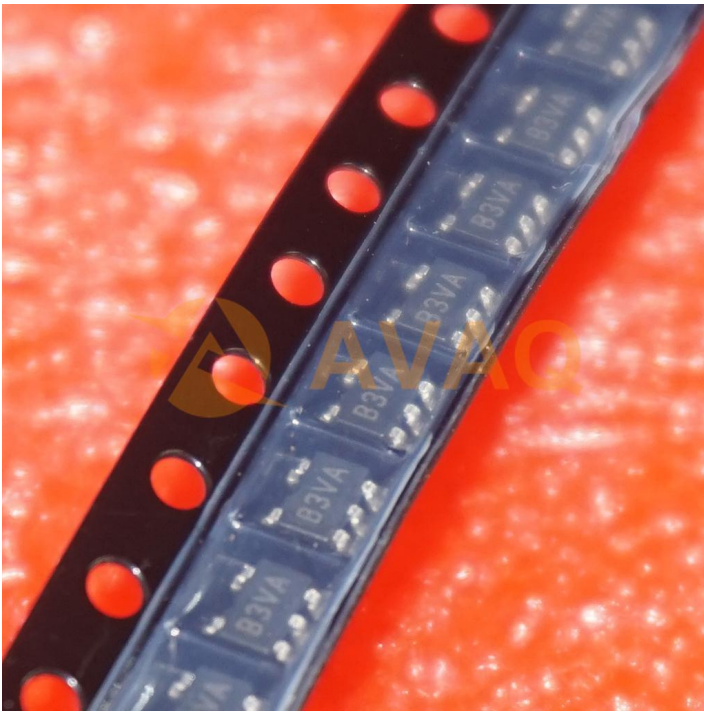
<b>Manufacturer:</b>	<a href="#">Microchip Technology, Inc</a>
<b>Package/Case:</b>	SOT23-5
<b>Product Type:</b>	Power Management ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active

### General Description

The TC1014, TC1015, and TC1185 are high accuracy (typically  $\pm 0.5\%$ ) CMOS upgrades for older (bipolar) low dropout regulators such as the LP2980. Designed specifically for battery-operated systems, the devices' CMOS construction eliminates wasted ground current, significantly extending battery life. Total supply current is typically  $50\mu\text{A}$  at full load (20 to 60 times lower than in bipolar regulators). Key features for the devices include ultra low-noise operation (plus optional Bypass input), fast response to step changes in load, and very low dropout voltage, typically  $85\text{mV}$  (TC1014),  $180\text{mV}$  (TC1015), and  $270\text{mV}$  (TC1185) at full load. Supply current is reduced to  $0.5\mu\text{A}$  (max) and  $V_{\text{OUT}}$  falls to zero when the shutdown input is low. The devices also incorporate both over-temperature and over-current protection. The TC1014, TC1015, and TC1185 are stable with an output capacitor of only  $1\mu\text{F}$  and have a maximum output current of  $50\text{mA}$ ,  $100\text{mA}$ , and  $150\text{mA}$ , respectively. For higher output versions, see the TC1107, TC1108, and TC1173 (IOUT = 300 mA) data sheets.

### Key Features

- Extremely Low Supply Current ( $50\mu\text{A}$  typical)
- Very Low Dropout Voltage
- Minimum  $50\text{mA}$ ,  $100\text{mA}$ , and  $150\text{mA}$  Output Current (TC1014, TC1015, and TC1185, Respectively)
- High Output Voltage Accuracy
- Standard or Custom Output Voltages
- Power-Saving Shutdown Mode
- Reference Bypass Input for Ultra-Low-Noise Operation
- Over-Current and Over-Temperature Protection
- Pin Compatible Upgrades for Bipolar Regulators



## Recommended For You

---

### **TC7660COA**

Microchip Technology, Inc

SOP8

### **TC54VC3002ECB713**

Microchip Technology, Inc

SOT-23

### **TC4428ACOA**

Microchip Technology, Inc

SOP8

### **TC429CPA**

Microchip Technology, Inc

DIP8

### **TC4420EPA**

Microchip Technology, Inc

DIP8

### **TC1232CPA**

Microchip Technology, Inc

DIP8

### **TC1232COA**

Microchip Technology, Inc

SOP-8

### **TC4427AEPA**

Microchip Technology, Inc

DIP8

### **TC4421CAT**

Microchip Technology, Inc

TO220-5

### **TC4420CPA**

Microchip Technology, Inc

DIP8

### **TC4422EPA**

Microchip Technology, Inc

DIP8

### **TC1232EOA**

Microchip Technology, Inc

SOP-8

### **TC1240AECHIR**

Microchip Technology, Inc

SOT23-6

### **TC4421CPA**

Microchip Technology, Inc

DIP8

### **TC4420COA**

Microchip Technology, Inc

SOP-8