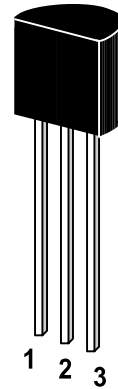


ST 78L06

3-Terminal positive voltage regulator

6V

- Suitable for TTL, DTL, HTL, C-MOS, Power Supply
- Internal Short-Circuit Current Limiting
- Internal Thermal Overload Protection
- Maximum Output Current of 150mA ($T_j=25^{\circ}\text{C}$)
- Available in the Plastic TO-92 Package



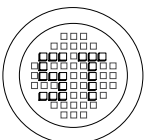
1. Output 2. Common 3. Input

TO-92 Plastic Package
Weight approx. 0.19g

Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$)

	Symbol	Rating	Unit
Input Voltage	V_{IN}	35	V
Power Dissipation	P_{tot}	800	mW
Operating Temperature	T_{opr}	-30~75	$^{\circ}\text{C}$
Storage Temperature Range	T_s	-55~150	$^{\circ}\text{C}$

G S P FORM A IS AVAILABLE



®

РАДИОТЕХ

Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

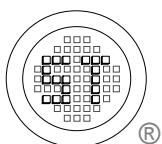
ST 78L06

Electrical Characteristics

(Unless otherwise specified, $V_{IN}=11V$, $I_{OUT}=40mA$, $C_{IN}=0.33\mu F$, $C_{OUT}=0.1\mu F$, $T_J=25^\circ C$)

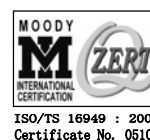
		Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output Voltage		V_{OUT}		5.76	6.0	6.24	V
Input Regulation		Reg. line	$8.1V \leq V_{IN} \leq 21V$	-	50	150	mV
			$9.0V \leq V_{IN} \leq 21V$	-	45	110	
Load Regulation		Reg. load	$1.0mA \leq I_{OUT} \leq 100mA$	-	12	70	mV
			$1.0mA \leq I_{OUT} \leq 40mA$	-	5.5	35	
Output Voltage		V_{OUT}	$8.1V \leq V_{IN} \leq 21V$ $1.0mA \leq I_{OUT} \leq 40mA$	5.7	-	6.3	V
		V_{OUT}	$V_{IN}=11V$ $1.0mA \leq I_{OUT} \leq 70mA$	5.7	-	6.3	V
Quiescent Current		I_B		-	3.1	6	mA
Quiescent Current Change	With line	ΔI_B	$9.0V \leq V_{IN} \leq 20V$	-	-	1.5	mA
	With load		$1.0mA \leq I_{OUT} \leq 40mA$	-	-	0.1	
Output Noise Voltage		V_{NO}	$T_a=25^\circ C$, $10Hz \leq f \leq 100KHz$	-	40	-	μV
Ripple Rejection		RR	$f=120Hz$, $9.0V \leq V_{IN} \leq 19V, T_J=25^\circ C$	39	47	-	dB
Dropout Voltage		$ V_{IN}-V_{OUT} $	$T_J=25^\circ C$	-	1.7	-	V
Average Temperature Coefficient of Output Voltage		TC_{VO}	$I_{OUT}=5mA$	-	-0.7	-	$mV/^\circ C$

G S P FORM A IS AVAILABLE



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 000-199-01-002-001

Dated : 07/12/2002