

CJ78L05

3-Terminal Positive Voltage Regulator

FEATURES

- Maximum Output Current Io: 0.15 A
- MaximumInput Voltage VI: 35V
- Continuous Total Dissipation PD: 0.5 W ($T_a = 25 \ ^{\circ}C$)

Absolute Maximum Ratings (T_a = 25 °C)



1: OUT 2: GND 3: IN

SOT-89 PLASTIC PACKAGE

Parameter	Symbol	Rating	Unit	
Input Voltage	VI	35	V	
Output Current	Io	150	mA	
Power Dissipation	Ptot	500 1)	mW	
Operating Temperature	Topr	- 55 to + 125	°C	
Storage Temperature Range	T _{stg}	- 55 to +150	°C	

1) Device is installed in the heat dissipation good environment

Electrical Characteristics ($T_a = 25^{\circ}C$) (Unless otherwise specified, $V_I = 10 \text{ V}$, $I_0 = 40 \text{ mA}$, $C_I = 0.33 \mu$ F, $C_0 = 0.1 \mu$ F)

Parameter	Symbol	Test Condition	Min. Typ.		Max.	Unit	
Output Voltage	V.	Tj = 25 °C	4.75	5	5.25	V	
	Vo	$7 \text{ V} \le \text{VI} \le 20 \text{ V}, 1 \text{ mA} \le \text{IO} \le 40 \text{ mA}$	4.65	5	5.35	V	
Voltage Regulation	C.	$7 \text{ V} \le \text{VI} \le 20 \text{ V}, \text{Tj} = 25 ^{\circ}\text{C}$			150	mV	
	Sv	$8 \text{ V} \le \text{VI} \le 20 \text{ V}, \text{Tj} = 25 \text{°C}$			100		
Current Regulation	SI	$1 \text{ mA} \le \text{IO} \le 100 \text{ mA}, \text{Tj} = 25 ^{\circ}\text{C}$			60	mV	
Quiescent Current	Iq	Tj = 25 °C			6	mA	
Quiescent Current Change	A T -	$8 V \le VI \le 20 V$			1.5		
	Δ IQ	$1 \text{ mA} \le \text{IO} \le 40 \text{ mA}$			0.1	- mA	
Ripple Rejection	Srip	$f = 120 \text{ Hz}, 8 \text{ V} \le \text{VI} \le 18 \text{ V}, Tj = 25 ^{\circ}\text{C}$		49		dB	
Dropout Voltage	VDrop	Tj = 25 °C		1.7		V	



CJ78L05

Electrical characteristic curve

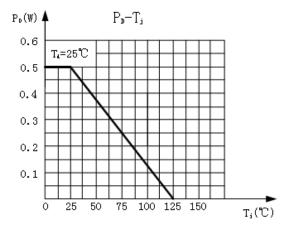


Figure 1: dissipation power relationship with the temperature curve

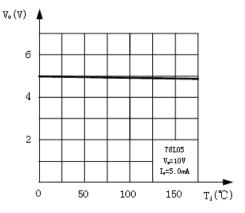
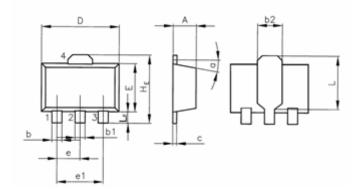


Figure 2 output voltage and junction temperature curve

Outline Dimension



			Unit: mm		
	SOT-89				
	min	type	max		
А	1.4		1.6		
b	0.35		0.55		
b1	0.4		0.65		
b2		1.6			
с	0.35		0.45		
D	4.4		4.6		
Е	2.35		2.55		
e		1.5			
e1		3			
HE		4.15			
L		2.7			
LE		1.0			
α		5 ⁰			

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Linear Voltage Regulators category:

Click to view products by Shikues manufacturer:

Other Similar products are found below :

LV56831P-E LV5684PVD-XH MCDTSA6-2R L4953G L7815ACV-DG PQ3DZ53U LV56801P-E TCR3DF13,LM(CT TCR3DF39,LM(CT TLE42794G L78L05CZ/1SX L78LR05DL-MA-E L78MR05-E 033150D 033151B 090756R 636416C NCV78M15BDTG 702482B 714954EB TLE42794GM TLE42994GM ZMR500QFTA BA033LBSG2-TR NCV78M05ABDTRKG NCV78M08BDTRKG NCP7808TG NCV571SN12T1G LV5680P-E CAJ24C256YI-GT3 L78M15CV-DG L9474N TLS202B1MBV33HTSA1 L79M05T-E NCP571SN09T1G MAX15006AASA/V+ MIC5283-5.0YML-T5 L4969URTR-E L78LR05D-MA-E NCV7808BDTRKG L9466N NCP7805ETG SC7812CTG NCV7809BTG NCV571SN09T1G NCV317MBTG MC78M15CDTT5G MC78M12CDTT5G L9468N LT1054IS8#TRPBF