

## FEATURES

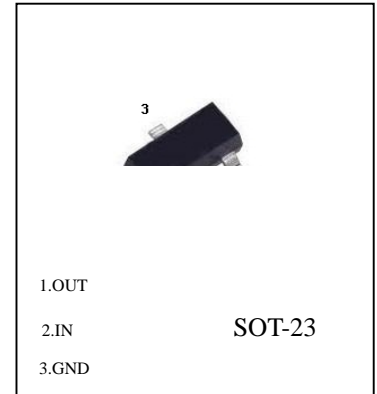
Maximum Output current  $I_O$ : 0.1 A

Output voltage  $V_O$ : 5 V

Continuous total dissipation  $P_D$ : 0.35 W ( $T_a = 25$  )

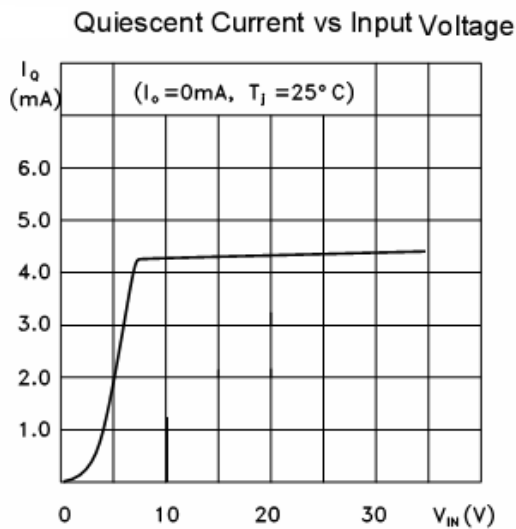
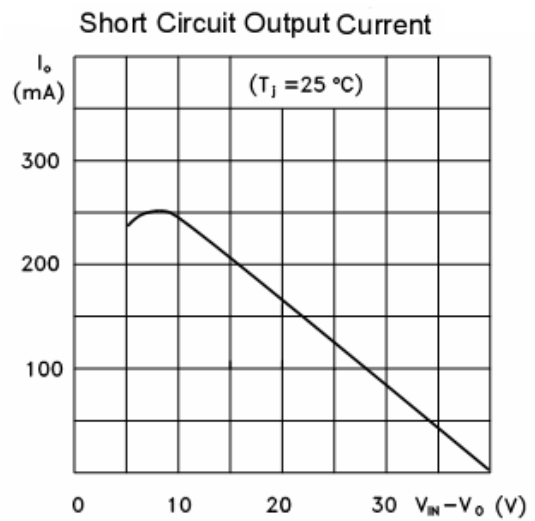
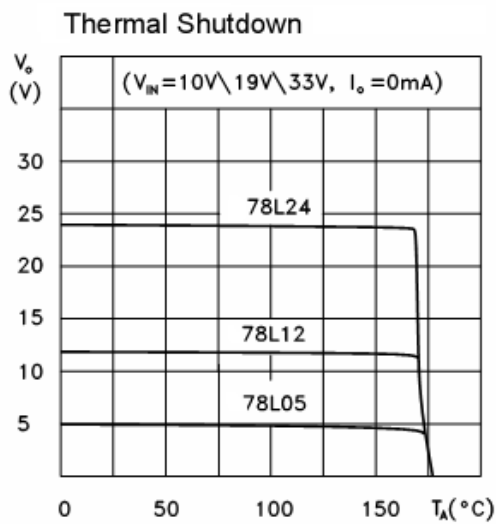
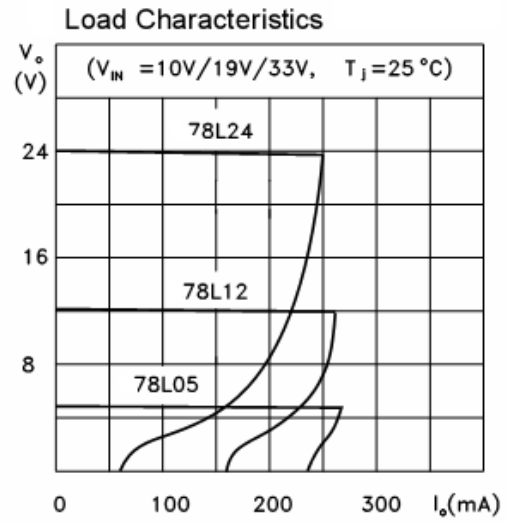
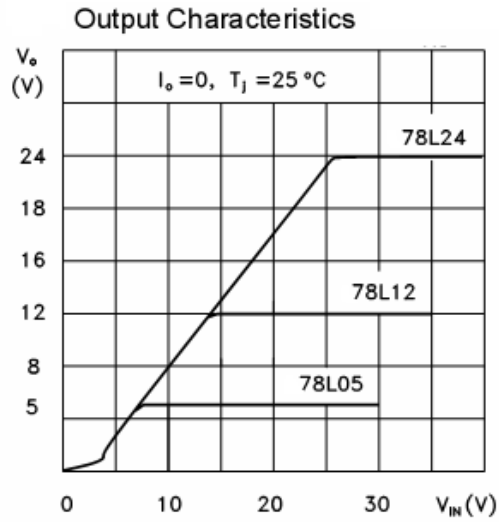
## ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies)

Parameter	Symbol	Value	Unit
Input Voltage	$V_I$	30	V
Operating Junction Temperature Range	TOPR	0-125	
Storage Temperature Range	$T_{STG}$	-65-150	



## ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ( $V_i=10V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$ , unless otherwise specified )

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output voltage	$V_o$		25	4.8	5.0	5.2	V
		7V $V_i$ 20V, $I_o=1mA\sim 40mA$	0-125	4.75	5.0	5.25	V
		$I_o=1mA\sim 70mA$		4.75	5.0	5.25	V
Load Regulation	$V_o$	$I_o=1mA\sim 100mA$	25		15	60	mV
		$I_o=1mA\sim 40mA$	25		8	30	mV
Line regulation	$V_o$	7V $V_i$ 20V			32	150	mV
		8V $V_i$ 20V	25		26	100	mV
Quiescent Current	$I_q$		25		3.8	6	mA
Quiescent Current Change	$I_q$	8V $V_i$ 20V	0-125			1.5	mA
	$I_q$	1mA $V_i$ 40mA	0-125			0.1	mA
Output Noise Voltage	$V_N$	10Hz $f$ 100KHz	25		42		$\mu V$
Ripple Rejection	RR	8V $V_i$ 20V, $f=120Hz$	0-125	41	49		dB
Dropout Voltage	$V_d$		25		1.7		V



## **PACKAGE OUTLINE**

**Plastic surface mounted package; 3 leads**

**SOT-23**

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