

### 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	$T_{OPR}$	0-125	
Storage Temperature Range	$T_{STG}$	-65-150	

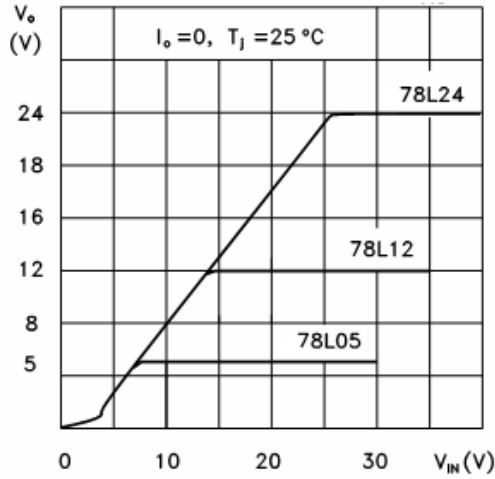


### ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ( $V_i=10V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$ , unless otherwise specified )

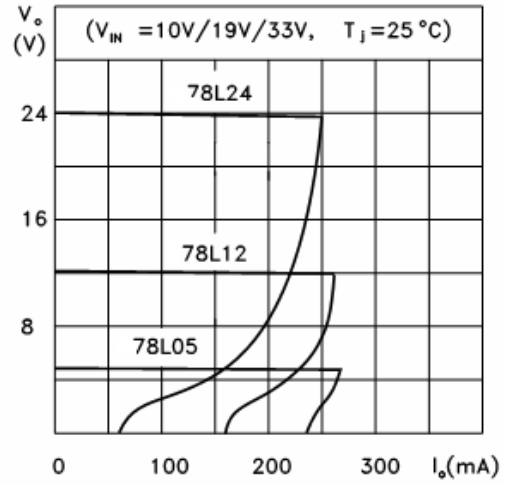
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output voltage	$V_o$		25	4.8	5.0	5.2	V
		7V $V_i$ 20V, $I_o=1mA\sim 40mA$	0-125	4.75	5.0	5.25	V
		$I_o=1mA\sim 70mA$		4.75	5.0	5.25	V
Load Regulation	$V_o$	$I_o=1mA\sim 100mA$	25	15	60	mV	
		$I_o=1mA\sim 40mA$	25	8	30	mV	
Line regulation	$V_o$	7V $V_i$ 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	
		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	



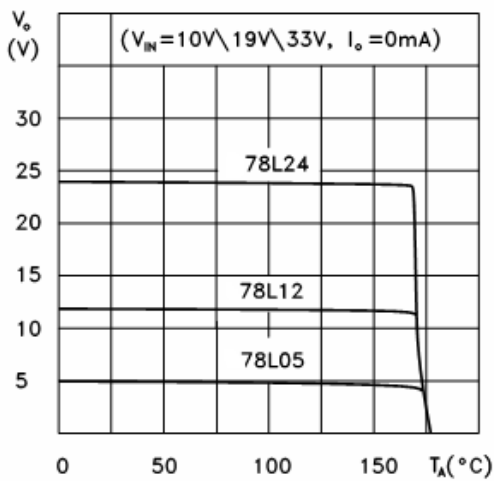
### Output Characteristics



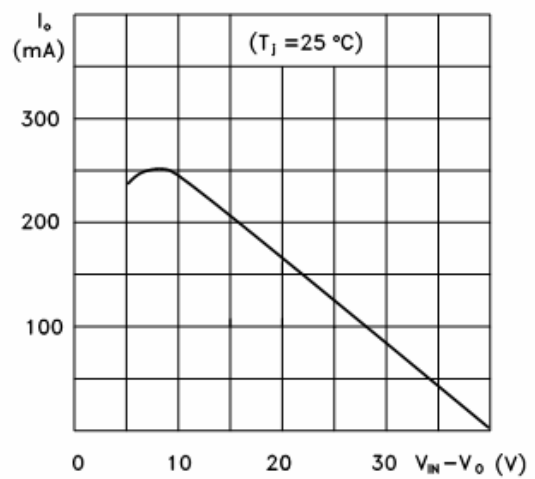
### Load Characteristics



### Thermal Shutdown



### Short Circuit Output Current



### Quiescent Current vs Input Voltage

