

Three-terminal positive voltage regulator



FEATURES

- Maximum output current I_{OM} : 1.5A
- Output voltage V_O : 5 V
- Continuous total dissipation PD : 1.25 W

ABSOLUTE MAXIMUM RATINGS

Operating temperature range applies unless otherwise specified

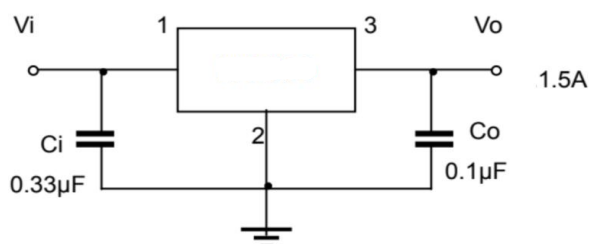
Parameter	Symbol	Value	Unit
Input Voltage	V	35	V
Operating Junction Temperature Range	TOPR	0~+125	°C
Storage Temperature Range	T	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE

($V_i=10V, I_o=350mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit	
Output Voltage	V_o	25°C	4.8	5	5.2	V	
		$7V \leq V_i \leq 20V, I_o=5mA-1A$	0~125°C	4.75	5	5.25	V
Load Regulation	ΔV_o	$I_o=5mA-1.5A$	25°C	9	100	mV	
		$I_o=250mA-750mA$	25°C	4	50	mV	
Line Regulation	ΔV_o	$7V \leq V_i \leq 25V$	25°C	4	100	mV	
		$8V \leq V_i \leq 12V$	25°C	1.6	50	mV	
Quiescent Current	I_q	25°C		5	8	mA	
Quiescent Current Change	ΔI_q	$7V \leq V_i \leq 25V$	0~125°C		0.3	1.3	mA
		$5mA \leq I_o \leq 1A$	0~125°C		0.02	0.5	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$	25°C	40		uV	
Ripple Rejection	RR	$8V \leq V_i \leq 18V, f=120Hz, I_o=300mA$	0~125°C	62	80	dB	
Dropout Voltage	VD	$I_o=1mA$	25°C	2		V	
Short Circuit Current	ISC	$V_i=10V$	25°C		230	mA	
Peak Current	I_{pk}	25°C		2.2		A	

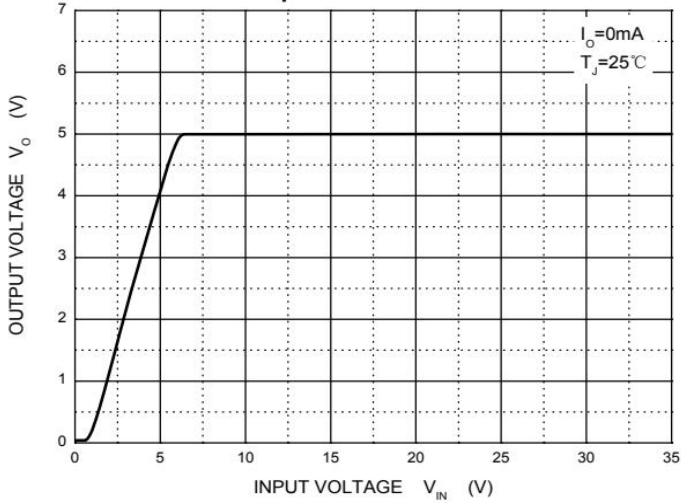
TYPICAL APPLICATION



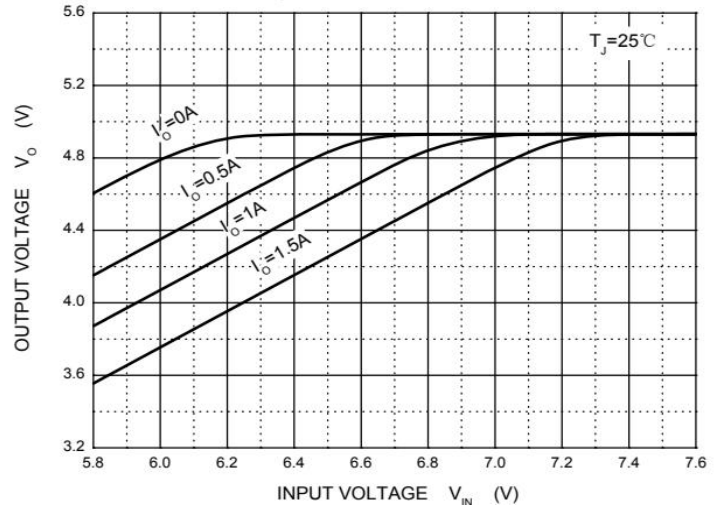
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

RATINGS AND CHARACTERISTIC CURVES

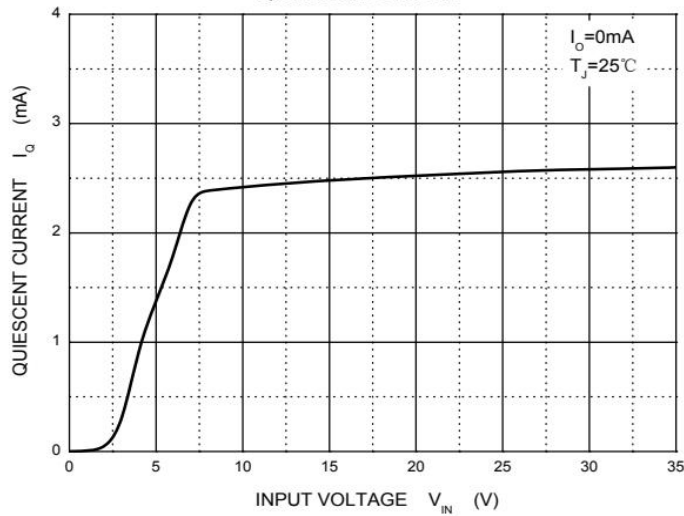
Output Characteristics



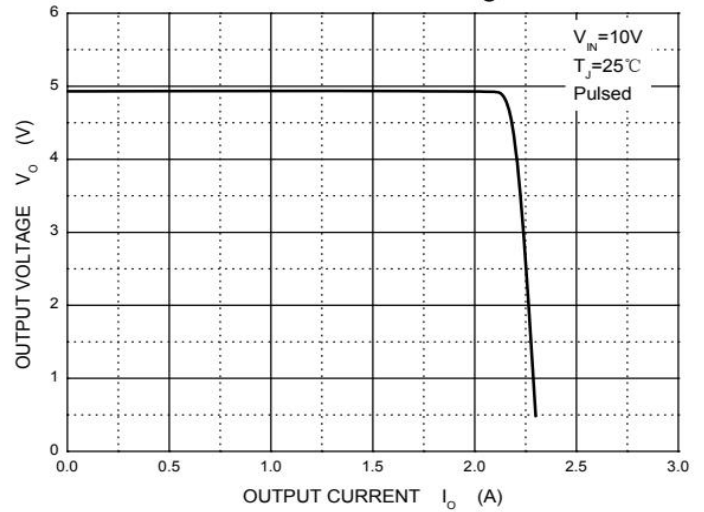
Dropout Characteristics



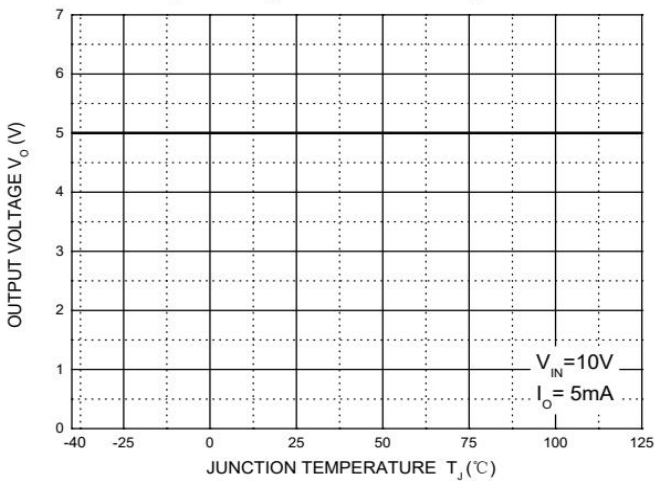
Quiescent Current



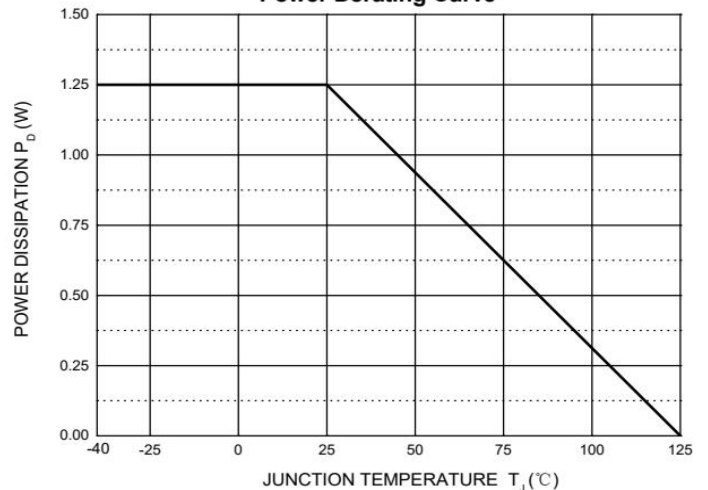
Current Cut-off Grid Voltage



Output Voltage vs Junction Temperature

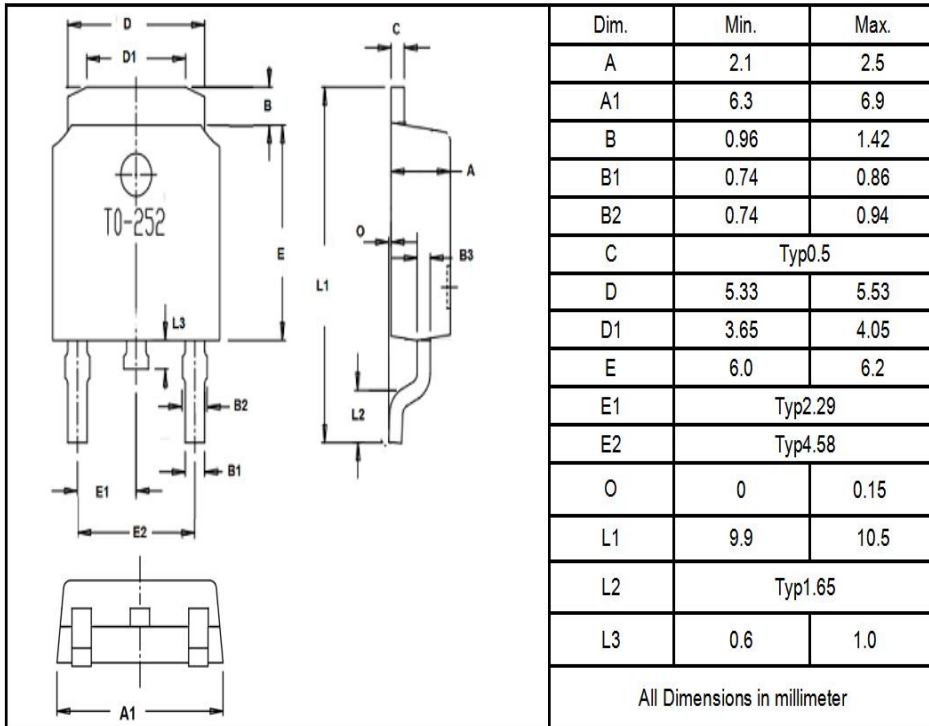


Power Derating Curve



Package Outline Dimensions millimeters

TO-252



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