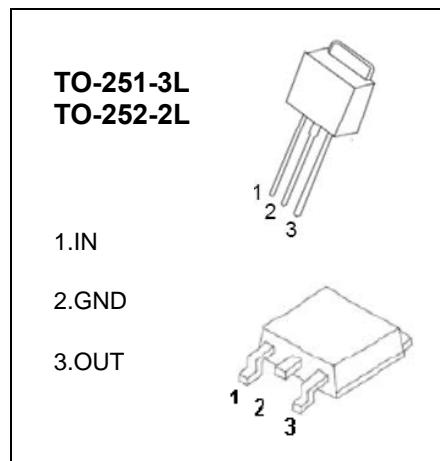


Three-terminal positive voltage regulator

### FEATURES

Maximum output current  $I_{OM}$ : 0.5 A  
 Output voltage  $V_o$ : 9V  
 Continuous total dissipation  $P_D$ : 1.25 W ( $T_a = 25^\circ C$ )



### ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
<b>Input Voltage</b>	$V_i$	25	V
<b>Operating Junction Temperature Range</b>	$T_{OPR}$	0~+125	°C
<b>Storage Temperature Range</b>	$T_{STG}$	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ( $V_i=16V$ ,  $I_o=350mA$ ,  $C_J=0.33\mu F$ ,  $C_O=0.1\mu F$ , unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
<b>Output Voltage</b>	$V_o$	25°C	8.65	9	9.35	V
		11.5≤ $V_i$ ≤24V, $I_o=5mA$ -350mA, $P_o\leq 15W$	0-125°C	8.55	9	9.45
<b>Load Regulation</b>	$\Delta V_o$	$I_o=5mA$ -500mA	25°C	20	180	mV
		$I_o=5mA$ -200mA	25°C	10	90	mV
<b>Line Regulation</b>	$\Delta V_o$	11.5V≤ $V_i$ ≤26V, $I_o=200mA$	25°C	6	100	mV
		12V≤ $V_i$ ≤26V, $I_o=200mA$	25°C	2	50	mV
<b>Quiescent Current</b>	$I_q$		25°C	4.6	6	mA
<b>Quiescent Current Change</b>	$\Delta I_q$	11.5V≤ $V_i$ ≤26V, $I_o=200mA$	0-125°C		0.8	mA
	$\Delta I_q$	5mA≤ $I_o$ ≤350mA	0-125°C		0.5	mA
<b>Output Noise Voltage</b>	$V_N$	10Hz≤ $f$ ≤100KHz	25°C	60		μV
<b>Ripple Rejection</b>	$RR$	13≤ $V_i$ ≤23V, $f=120Hz$ , $I_o=300mA$	0-125°C	56	80	dB
<b>Dropout Voltage</b>	$V_d$	$I_o=350mA$	25°C	2		V
<b>Short Circuit Current</b>	$I_{sc}$	$V_i=16V$	25°C	250		mA
<b>Peak Current</b>	$I_{pk}$		25°C	0.5		A

### TYPICAL APPLICATION

