

Description

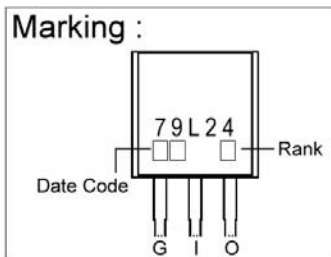
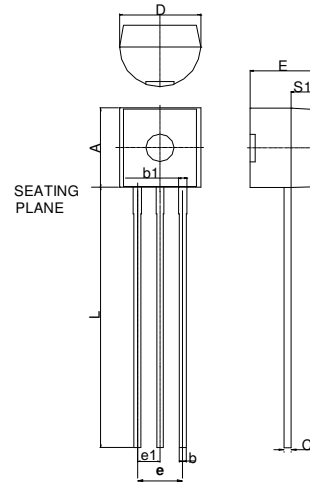
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The S79L24 is monolithic fixed voltage regulator integrated circuit. They are suitable for applications that require supply current up to 100mA.

Features

- * Short Circuit Current Limiting
- * Output Current Up To 100mA
- * Thermal Overload Shutdown Protection

TO-92

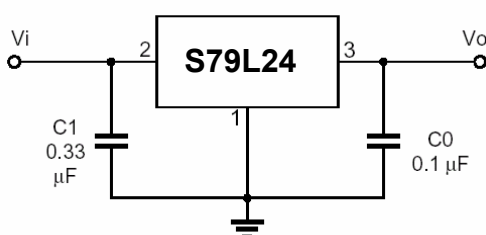


REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.45	4.7	D	4.44	4.7
S1	1.02	-	E	3.30	3.81
b	0.36	0.51	L	12.70	-
b1	0.36	0.76	e1	1.150	1.390
C	0.36	0.51	e	2.42	2.66

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Input Voltage	V_{IN}	-40	V
Output Current	I_o	100	mA
Operating Junction Temperature Range	T_j	0~+125	°C
Storage Temperature Range	T_{stg}	-55~+150	°C
Total Power Dissipation	P_D	625	mW

Application Circuit



Electrical Characteristics ($V_{in}=-33$, $I_o=40mA$, $T_j=25^{\circ}C$, $C_1=0.33\mu F$, $C_o=0.1\mu F$ unless otherwise specified)

Rank A (3%)				Unit	Test Conditions
Symbol	Min.	Typ.	Max.		
VO	-23.28	-24	-24.72	V	$V_{in}=-27V \sim -38V$, $I_o=1mA \sim 40mA$
	-23.28	-24	-24.72		$V_{in}=-33V \sim V_{max}$, $I_o=1mA \sim 70mA$ (Note1)
ΔVO (Line Regulation)	-	-	350	mV	$V_{in}=-27V \sim -38V$, $I_o=40mA$
	-	-	300		$V_{in}=-28V \sim -38V$, $I_o=40mA$
ΔVO (Load Regulation)	-	-	200	mV	$V_{in}=-33V$, $I_o=1mA \sim 100mA$
	-	-	100		$V_{in}=-33V$, $I_o=1mA \sim 40mA$
IQ	-	-	6.0	mA	$T_j=25^{\circ}C$, $V_{in}=-33V$, $I_o=40mA$
ΔIQ	-	-	1.5	mA	$V_{in}=-28V \sim -38V$, $I_o=40mA$
	-	-	0.1		$V_{in}=-33V$, $I_o=1mA \sim 40mA$
Vn	-	200	-	μV	$f=10Hz \sim 100KHz$
RR	31	47	-	db	$V_{in}=-29V \sim -35V$, $I_o=40mA$, $f=120Hz$
VD	-	1.7	-	V	$T_j=25^{\circ}C$

Electrical Characteristics ($V_{in}=-33$, $I_o=40mA$, $T_j=25^{\circ}C$, $C_1=0.33\mu F$, $C_o=0.1\mu F$ unless otherwise specified)

Rank B (5%)				Unit	Test Conditions
Symbol	Min.	Typ.	Max.		
VO	-22.80	-24	-25.20	V	$V_{in}=-27V \sim -38V$, $I_o=1mA \sim 40mA$
	-22.80	-24	-25.20		$V_{in}=-33V \sim V_{max}$, $I_o=1mA \sim 70mA$ (Note1)
ΔVO (Line Regulation)	-	-	350	mV	$V_{in}=-27V \sim -38V$, $I_o=40mA$
	-	-	300		$V_{in}=-28V \sim -38V$, $I_o=40mA$
ΔVO (Load Regulation)	-	-	200	mV	$V_{in}=-33V$, $I_o=1mA \sim 100mA$
	-	-	100		$V_{in}=-33V$, $I_o=1mA \sim 40mA$
IQ	-	-	6.0	mA	$T_j=25^{\circ}C$, $V_{in}=-33V$, $I_o=40mA$
ΔIQ	-	-	1.5	mA	$V_{in}=-28V \sim -38V$, $I_o=40mA$
	-	-	0.1		$V_{in}=-33V$, $I_o=1mA \sim 40mA$
Vn	-	200	-	μV	$f=10Hz \sim 100KHz$
RR	31	47	-	db	$V_{in}=-29V \sim -35V$, $I_o=40mA$, $f=120Hz$
VD	-	1.7	-	V	$T_j=25^{\circ}C$

Note: 1. Power dissipation < 0.625W