



Micro Commercial Components

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MC78L15F

Three-Terminal Low Current Negative Voltage Regulator

Features

- Maximum Output current $I_o:0.1A$
- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- No External Components Required
- Case Material:Molded Plastic. UL Flammability Classification Rating 94-0 and MSL Rating 1
- Marking :Type Number

Absolute Maximum Ratings

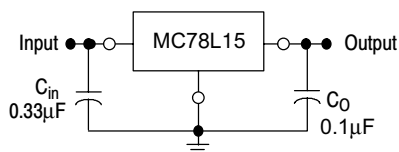
Parameter	Symbol	Value	Unit
Input Voltage	V_{in}	35	V
Operating Junction Temperature	T_{OPR}	0---+125	°C
Storage Temperature Range	T_{STG}	-55---+150	°C

Electrical Characteristics($V_i=23V$, $I_o=40mA$, $0^\circ C < T_j < 125^\circ C$, $C_1=0.33\mu F$, $C_o=0.1\mu F$, unless otherwise specified)

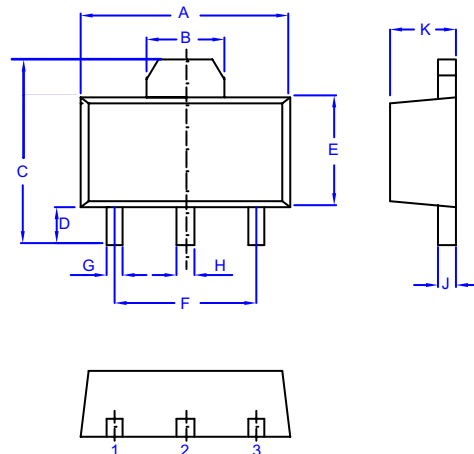
Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	V_o	14.4V	15.0V	15.6V	
Load Regulation	$V_o - I_o$		25mV	150mV	$I_o=1mA-100mA$, $V_i=23V$
Line regulation	$V_o - V_i$		65mV	300mV	$17.5V \leq V_i \leq 30V$, $I_o=40mA$
Quiescent Current	I_q		4.6mA	6.5mA	
Output Noise Voltage	V_N		82μV		$10Hz \leq f \leq 100KHz$
Ripple Rejection	RR	34dB	39dB		$18.5V \leq V_i \leq 28.5V$, $f=120Hz$

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

Typical Application:



SOT-89



1. GND
2. IN (Case)
3. OUT

DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.061	----	1.55	----	REF.
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	----	3.00	----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;1Kpcs/Reel

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