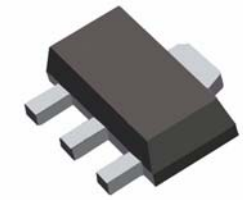
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-89 Encapsulate Three-terminal Voltage Regulator

CJ79L15 Three-terminal positive voltage regulator

TO-92

1. GND
2. IN
3. OUT



FEATURES

Maximum Output current

$I_{OM:}$ 100 mA

Output voltage

V_O: -15 V

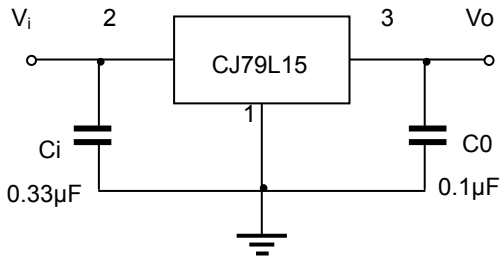
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unlts
Input Voltage	V_i	-35	V
Operating Junction Temperature Range	T_{OPR}	-20~+120	℃
Storage Temperature Range	T_{STG}	-55~+150	℃

ELECTRICAL CHARACTERISTICS (Vis=-23V,Io=40mA,0℃<Tj<125℃,C1=0.33μF,Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	Vo	Tj=25℃	-14.4	-15	-15.6	V
		-17.5V≤V_i≤-30V, Io=1mA~40mA	-14.25	-15	-15.75	V
		-17.5V≤V_i≤-30V, Io=1mA~70mA	-14.25	-15	-15.75	V(note)
Load Regulation	ΔVo	Tj=25℃, Io=1mA~100mA, V_i=-23V		25	150	mV
		Tj=25℃, Io=1mA~40mA, V_i=-23V		15	75	mV
Line regulation	ΔVo	-17.5V≤Vi≤-30V, Tj=25℃ ,Io=40mA		65	300	mV
		-20V≤Vi≤-30V, Tj=25℃,Io=40mA		5	250	mV
Quiescent Current	Iq	Tj=25℃			6.5	mA
Quiescent Current Change	ΔIq	-20V≤Vi≤-30V, Io=40mA			1.5	mA
	ΔIq	1mA≤I_O≤40mA, Vi=-23V			0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz		90		μV
Ripple Rejection	RR	-18.5V≤Vi≤-28.5V,f=120Hz,25℃≤Tj≤125℃	34	39		dB
Dropout Voltage	Vd	Tj=25℃		1.7		V

TYPICAL APPLICATION



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