

78L15 Three-terminal positive voltage regulator

FEATURES

Maximum output current

I_{OM} : 0.1 A

Output voltage

V_O : 15 V

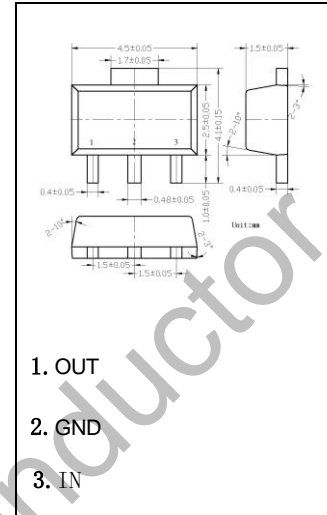
Continuous total dissipation

P_D : 0.5 W

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies

Unless otherwise specified)

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

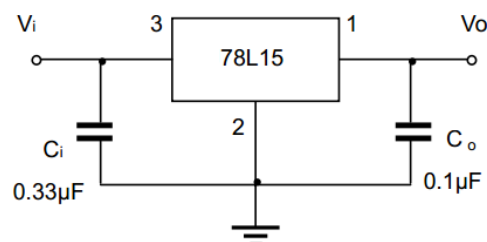


1. OUT
2. GND
3. IN

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=23V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V_o	$25^\circ C$	14.4	15	15.6	V
		$17.5V \leq V_i \leq 30V, I_o = 1mA - 40mA$	14.25	15	15.75	V
		$V_i = 23V, I_o = 1mA - 70mA$	14.25	15	15.75	V
Load Regulation	ΔV_o	$I_o = 1mA - 100mA, V_i = 23V$	$25^\circ C$	25	150	mV
		$I_o = 1mA - 40mA, V_i = 23V$	$25^\circ C$	15	75	mV
Line regulation	ΔV_o	$17.5V \leq V_i \leq 30V, I_o = 40mA$	$25^\circ C$	65	300	mV
		$19V \leq V_i \leq 30V, I_o = 40mA$	$25^\circ C$	58	250	mV
Quiescent Current	I_q		$25^\circ C$	4.6	6.5	mA
Quiescent Current Change	ΔI_q	$19V \leq V_i \leq 30V, I_o = 40mA$	$0 - 125^\circ C$		1.5	mA
		$1mA \leq I_o \leq 40mA, V_i = 23V$	$0 - 125^\circ C$		0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$	$25^\circ C$	82		μV
Ripple Rejection	RR	$18.5V \leq V_i \leq 28.5V, f = 120Hz$	$0 - 125^\circ C$	34	39	dB
Dropout Voltage	V_d		$25^\circ C$	1.7		V

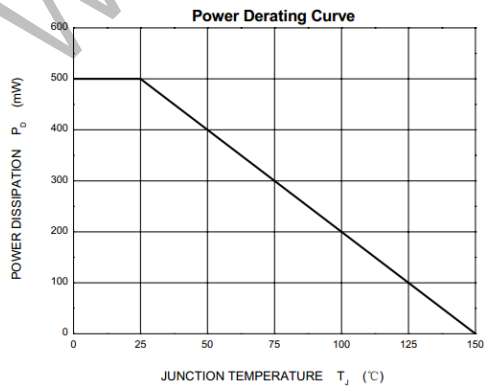
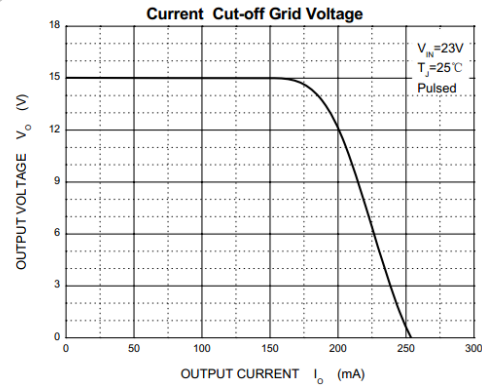
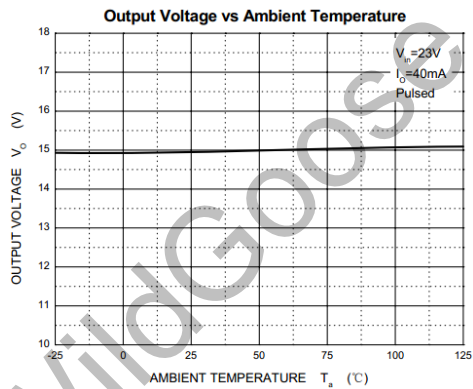
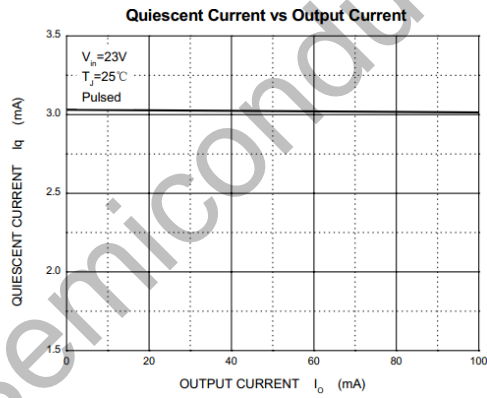
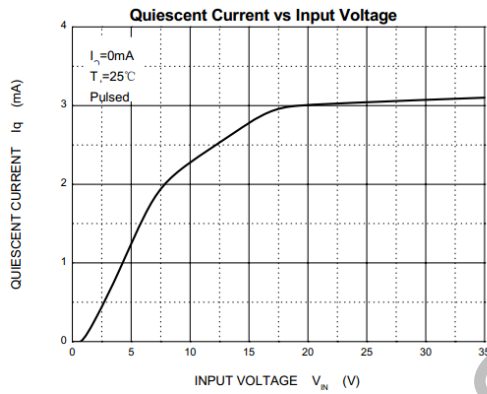
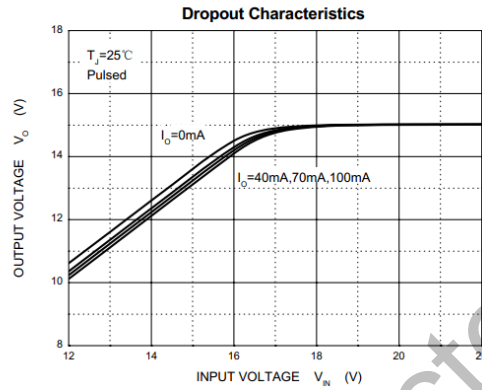
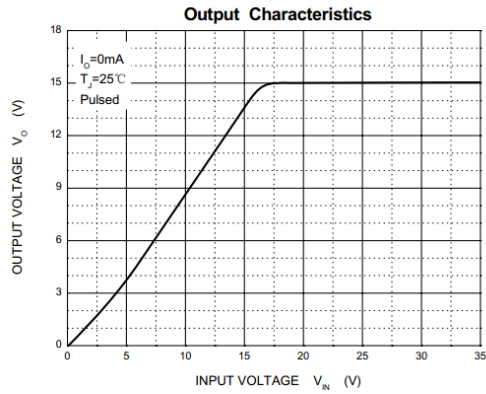
TYPICAL APPLICATION



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

Typical Characteristics

78L15



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