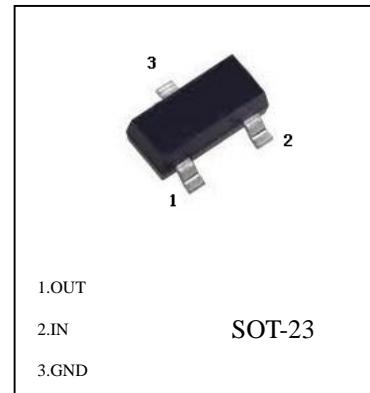


### FEATURES

Maximum Output current  $I_O$ : 0.1 A

Output voltage  $V_O$ : 15 V

Continuous total dissipation  $P_D$ : 0.35 W ( $T_a = 25^\circ C$ )

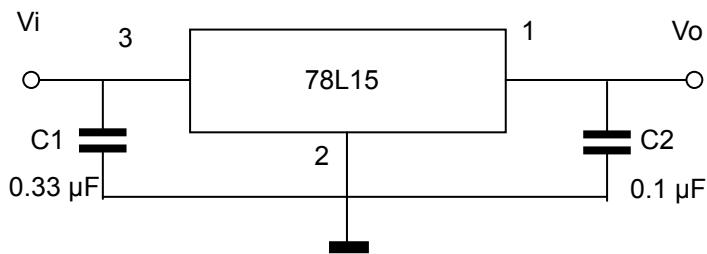


### ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies)

Parameter	Symbol	Value	Unit
Input Voltage	$V_I$	30	V
Operating Junction Temperature Range	$T_{OPR}$	0-125	°C
Storage Temperature Range	$T_{STG}$	-65-150	°C

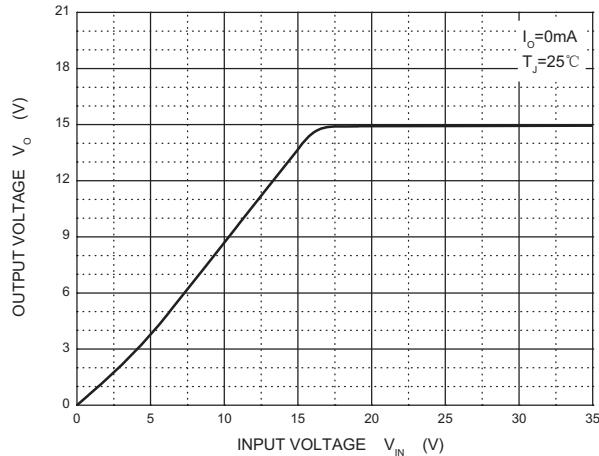
### Electrical Characteristics (Unless otherwise specified, $V_{IN} = 23 V$ , $I_{OUT} = 40 mA$ , $C_{IN} = 0.33 \mu F$ , $C_{OUT} = 0.1 \mu F$ , $T_j = 25^\circ C$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit
Output Voltage	$V_{OUT}$	14.4	15	15.6	V
Output Voltage $17.5 V \leq V_{IN} \leq 30 V$ , $1 mA \leq I_{OUT} \leq 40 mA$	$V_{OUT}$	14.25	-	15.75	V
Output Voltage $V_{IN} = 23 V$ , $1 mA \leq I_{OUT} \leq 70 mA$	$V_{OUT}$	14.25	-	15.75	V
Input Regulation $17.5 V \leq V_{IN} \leq 30 V$ $19 V \leq V_{IN} \leq 30 V$	Reg. line	-	-	300 250	mV
Load Regulation $1 mA \leq I_{OUT} \leq 100 mA$ $1 mA \leq I_{OUT} \leq 40 mA$	Reg. load	-	-	150 75	mV
Quiescent Current	$I_Q$	-	-	6.5	mA
Quiescent Current Change $19 V \leq V_{IN} \leq 30 V$ $1 mA \leq I_{OUT} \leq 40 mA$	$\Delta I_Q$	- -	- -	1.5 0.1	mA
Output Noise Voltage at $T_a = 25^\circ C$ , $10 Hz \leq f \leq 100 KHz$	$V_{NO}$	-	90	-	μV
Ripple Rejection at $f = 120 Hz$ , $18.5 V \leq V_{IN} \leq 28.5 V$ , $T_j = 25^\circ C$	RR	34	-	-	dB
Dropout Voltage at $T_j = 25^\circ C$	$ V_{IN}-V_{OUT} $	-	1.7	-	V

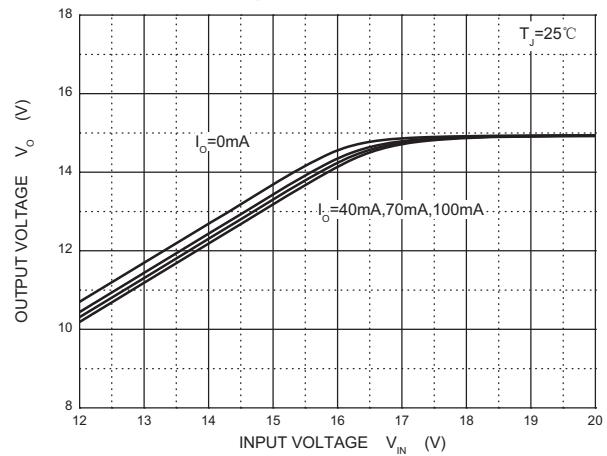


### Typical Characteristics

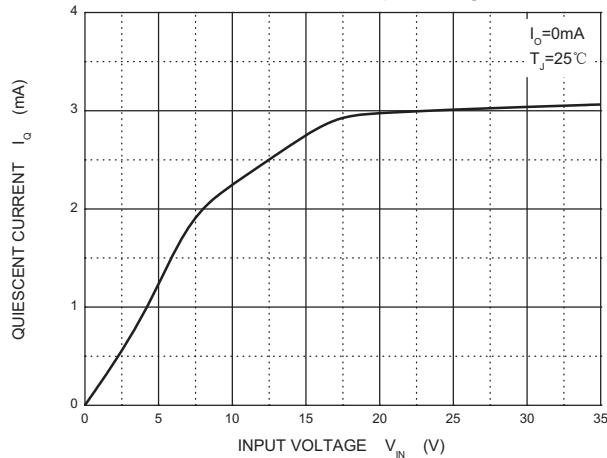
**Output Characteristics**



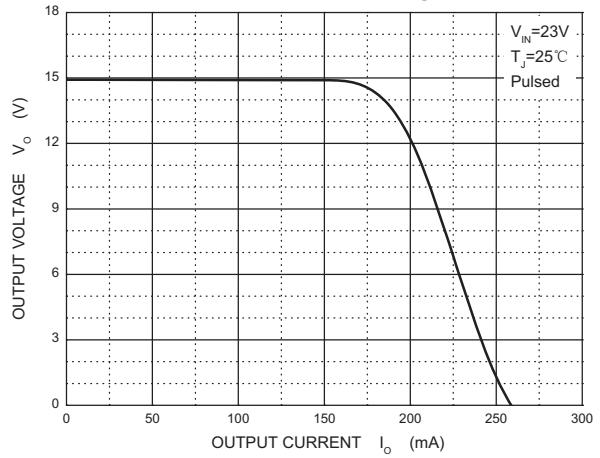
**Dropout Characteristics**



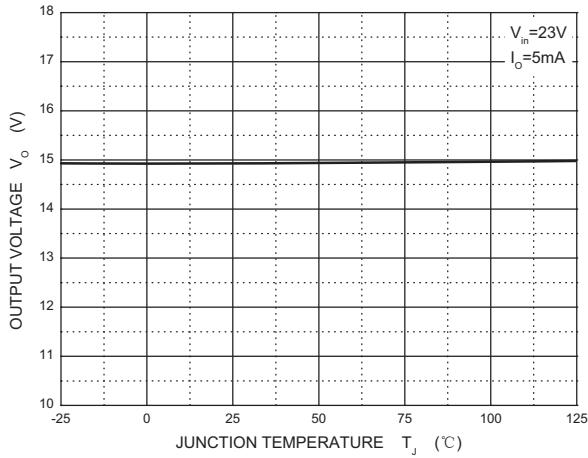
**Quiescent Current vs Input Voltage**



**Current Cut-off Grid Voltage**



**Output Voltage vs Junction Temperature**



**Power Derating Curve**

