

Positive Voltage Regulator 3 Terminal

multicomp^{PRO}

RoHS
Compliant



Features

- Maximum output current: $I_{OM}=0.1A$
- Output voltage: $V_O=3.3V$ Continuous
- Total dissipation: $P_D=0.625W$

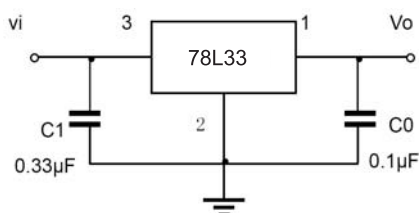
Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating
Input Voltage	V_i	30V
Operating Junction Temperature Range	T_{OPR}	$-0^\circ C$ to $+125^\circ C$
Storage Temperature Range	T_{STG}	$-55^\circ C$ to $+150^\circ C$

Electrical Characteristics ($V_i=8.3V$, $I_o=40mA$, $0^\circ C < T_j < 125^\circ C$, $C_1=0.33\mu F$, $C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Output voltage	V_o	$T_j=25^\circ C$	3.173	3.3	3.432	V
		$5.8V \leq V_i \leq 20V$, $I_o=5mA-100mA$	3.142		3.465	
Load regulation	ΔV_o	$T_j=25^\circ C$, $I_o=5mA-100mA$		15	60	mV
		$T_j=25^\circ C$, $I_o=5mA-40mA$		5	30	
Line regulation	ΔV_o	$5.8V \leq V_i \leq 20V$, $T_j=25^\circ C$, $I_{out} = 40mA$		50	150	
Quiescent current	I_q	$T_j=25^\circ C$,		3	6	mA
Quiescent current change	ΔI_q	$0^\circ C < T_j < 125^\circ C$ $5V \leq V_i \leq 20V$			1.5	
		$0^\circ C < T_j < 125^\circ C$ $5mA \leq I_o \leq 40V$			0.1	
Output noise voltage	V_N	$10Hz \leq f \leq 100KHz$		40		μV
Ripple rejection	R_R	$5.8V \leq V_i \leq 20V$, $f=120Hz$, $T_j=25^\circ C$	41	49		dB
Dropout voltage	V_d	$T_j=25^\circ C$, $I_{out}=100mA$		2		V

Typical Application



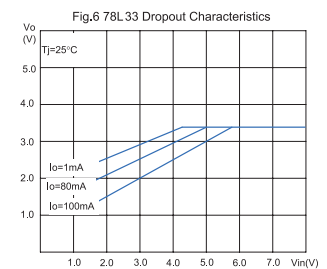
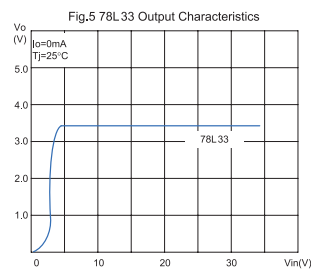
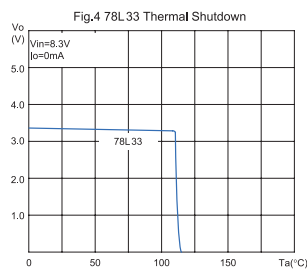
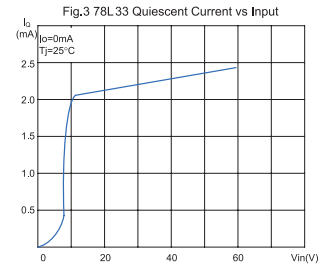
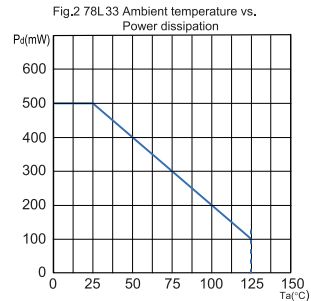
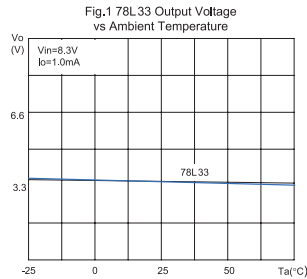
Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

multicomp^{PRO}

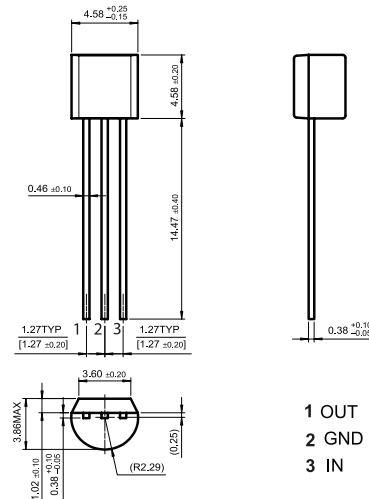
Positive Voltage Regulator 3 Terminal

multicompPRO

Typical Characteristics



Diagram



Part Number Table

Description	Part Number
Positive Voltage Regulator, Fixed, 3.3V, 0.1A	78L33

Dimensions : Millimetres

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

multicompPRO