

TECHNICAL DATA DATA SHEET 329, REV. A Formerly part number SHD52621

FIXED POSITIVE 1.5 AMP 12 VOLT REGULATOR

FEATURES: ISOLATED HERMETIC PACKAGE SIMILAR to INDUSTRY TYPE 7815A

MAXIMUM RATINGS

All ratings are at $T_C = 25^{\circ}C$ unless otherwise specified.

Parameter	Conditions		Maximum	Units
Input Voltage	$V_O = 15V$	-	35	Vdc
Ambient Operating Temperature Range (T _A)	-	-	-55 to +150	°C
Storage Temperature Range	-	-	-65 to +150	°C
Thermal Resistance (R ₀ JC)	-	-	4.3	°C/W
Rated Power	T _C = +25°C	-	15	W

ELECTRICAL CAHRACTERISTICS

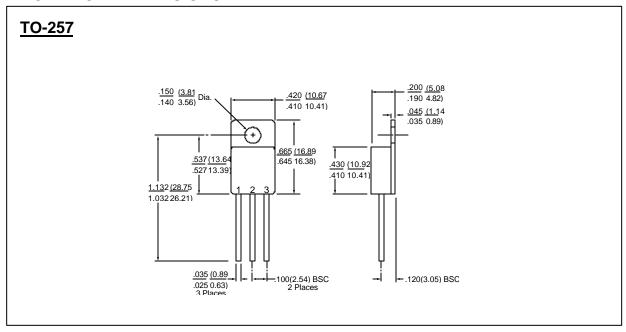
Symbol	Parameter	Conditions		Min.	Тур.	Max.	Units
Vo	Output Voltage	$T_j = 25^{\circ}C$		11.88	12	12.12	V
		$P_D \le 15W$, 5 mA $\le I_O \le 1A$ 14.5V $\le V_N \le 27V$		11.64		12.36	V
V _{RLINE}	Line Regulation	$14.5V \le V_N \le 27V$	T _A = 25°C			18	mV
			-55°C ≤ T _C ≤ + 125°C			50	mV
		$16V \le V_{IN} \le 22V$	$T_C = 25^{\circ}C$			9	mV
			-55°C ≤ T _C ≤ + 125°C			30	mV
V _{RLOAD}	Load Regulation	T _j = 25°C	$5 \text{ mA} \le I_0 \le 1.5\text{A}$ $250 \text{ mA} \le I_0 \le 750\text{mA}$			32 20	mV mV
		5 mA ≤ l ₀ ≤ 0.5A, -55° ≤ T _C ≤ + 125 °C				60	mV
lα	Quiescent Current	$T_C = 25^{\circ}C$ -55°C \le T_C \le + 125°C				6 6.5	mA mA
ΔI_Q	Quiescent Current	$5 \text{ mA} \le I_0 \le 1.0 \text{A}, -55^{\circ}\text{C} \le T_C \le + 125^{\circ}\text{C}$ $15\text{V} \le \text{V}_{\text{IN}} \le 30\text{V}, -55^{\circ}\text{C} \le T_C \le + 125^{\circ}\text{C}$				0.5	mA
	Change					0.8	mA
V_{DO}	Dropout Voltage	$T_C = 25 ^{\circ}\text{C}, \ \ b = 1.0\text{A}$				2.5	V
$I_{O(pk)}$	Peak Output Current	T _C = 25 °C		1.5		3.3	Α
los	Short Circuit Current	V _{IN} = 35V	$T_C = 25 ^{\circ}\text{C}$ -55^{\text{C}} \le T_C \le + 125^{\text{C}}			1.2 2.8	А
ΔV_{N}	Ripple Rejection	f = 120Hz	$I_0 \le 1A$, $T_C = 25^{\circ}C$	61	70	-	dB
ΔV_{OUT}		ΔV _{IN} =10V	$I_0 \le 500 \text{ mA, } -55^{\circ}\text{C} \le T_\text{C} \le + 125^{\circ}\text{C}$	54		-	dB
No	Output Noise Voltage	$T_C = 25^{\circ}C$, $f = 10Hz$ to $100kHz$		-		40	uV/V ms
<u>∆Vол</u> ∆t	Long Term Stability	T _C = 25°C, t=1000 hours			-	75	mV

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DATASHEET 329 REVISION A

MECHANICAL DIMENSIONS



PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
TO - 257, +12V Regulator	V_{IN}	GROUND	Vout



TECHNICAL DATA

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