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°C unless otherwise specified.

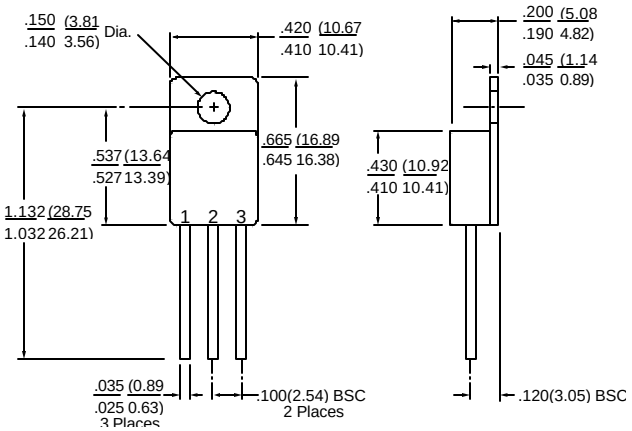
Parameter	Conditions		Maximum	Units
Input Voltage	V_O = 15V	-	35	Vdc
Ambient Operating Temperature Range (T_A)	-	-	-55 to +150	°C
Storage Temperature Range	-	-	-65 to +150	°C
Thermal Resistance ($R_{\theta JC}$)	-	-	4.3	°C/W
Rated Power	T_C = +25°C	-	15	W

ELECTRICAL CAHRACTERISTICS

Symbol	Parameter	Conditions		Min.	Typ.	Max.	Units
V_O	Output Voltage	T_j = 25°C		11.88	12	12.12	V
		$P_D \le$ 15W, 5 mA $\le I_O \le$ 1A 14.5V $\le V_{IN} \le$ 27V		11.64		12.36	V V
V_{RLINE}	Line Regulation	14.5V $\le V_{IN} \le$ 27V	T_A = 25°C			18	mV
			-55°C $\le T_C \le$ + 125°C			50	mV
		16V $\le V_{IN} \le$ 22V	T_C = 25°C			9	mV
			-55°C $\le T_C \le$ + 125°C			30	mV
V_{RLOAD}	Load Regulation	T_j = 25°C	5 mA $\le I_O \le$ 1.5A 250 mA $\le I_O \le$ 750mA			32 20	mV mV
		5 mA $\le I_O \le$ 0.5A, -55° $\le T_C \le$ + 125 °C				60	mV
I_Q	Quiescent Current	T_C = 25°C -55°C $\le T_C \le$ + 125°C				6 6.5	mA mA
ΔI_Q	Quiescent Current Change	5 mA $\le I_O \le$ 1.0A, -55°C $\le T_C \le$ + 125°C				0.5	mA
		15V $\le V_{IN} \le$ 30V, -55°C $\le T_C \le$ + 125°C				0.8	mA
V_{DO}	Dropout Voltage	T_C = 25 °C, I_O = 1.0A				2.5	V
$I_{O(pk)}$	Peak Output Current	T_C = 25 °C		1.5		3.3	A
I_{OS}	Short Circuit Current	V_{IN} = 35V	T_C = 25 °C -55°C $\le T_C \le$ + 125°C			1.2 2.8	A
$\frac{\Delta V_{IN}}{\Delta V_{OUT}}$	Ripple Rejection	f = 120Hz ΔV_{IN} =10V	$I_O \le$ 1A, T_C = 25°C $I_O \le$ 500 mA, -55°C $\le T_C \le$ + 125°C	61 54	70	- -	dB dB
N_O	Output Noise Voltage	T_C = 25°C, f = 10Hz to 100kHz		-		40	uV/V rms
$\frac{\Delta V_{OUT}}{\Delta t}$	Long Term Stability	T_C = 25°C, t=1000 hours			-	75	mV

MECHANICAL DIMENSIONS

TO-257



PINOUT TABLE

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

TECHNICAL DATA

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