

TECHNICAL DATA DATA SHEET 355, REV. -

FIXED NEGATIVETIVE 1.5 AMP 15 VOLT REGULATOR

FEATURES:
ISOLATED HERMETIC PACKAGE
SIMILAR to INDUSTRY TYPE 7915
EQUIVALENT MILITARY PART TYPE 5982-8874801UX

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	-	-	-55 to +150	°C
Range (T _A)				
Storage Temperature Range	-	-	-65 to +150	°C
Thermal Resistance $(R_{\theta JC})$	-	-	4.2	°C/W
Rated Power	T _C = +25°C	-	30	W

ELECTRICAL CAHRACTERISTICS

Symbol	Parameter	Conditions		Min.	Тур.	Max.	Units
Vo	Output Voltage	T _J = 25°C		-1485	-15.0	-15.15	V
		5 mA ≤ I _O ≤ 1A		-14.25		-15.75	V
		P ≤ 15W					
V _{RLINE} Line Regulation		$T_J = 25^{\circ}C$, $V_{IN} = -17.5V$ to $-30V$		-	5.0	25	mV
	V _{IN}	= -20V to -26V					
				-	3.0	15	mV
V _{RLOAD} Load Regulation	T _J = 25°C						
	$5~\text{mA} \leq I_0 \leq 1.5 \text{A}$		-	-	35	mV	
		$250~mA \leq I_O \leq 750mA$		-	-	21	mV
ΙQ	Quiescent Current	T _J = 25°C		-	1.5	3.0	mA
Δl_Q	Quiescent Current	With Line		-	-	0.5	mA
	Change	With Load, 5 mA $\leq I_0 \leq 1A$		-	-	0.5	mA
V_{DO}	Dropout Voltage	$T_J = 25 ^{\circ}\text{C}, I_O = 1 \text{A}$		-	-	2.5	V
I _{OMAX}	Peak Output Current	$T_{J} = 25$		1.5	-	3.3	Α
Ios	I_{OS} Short Circuit Current $V_{IN} = -35V$	$V_{IN} = -35V$	$T_C = 25 ^{\circ}C$	-	-	1.2	Α
			$-55^{\circ}C \le T_C \le + 125^{\circ}C$			2.8	
ΔV_{IN}	Ripple Rejection	f = 120Hz		54	70	-	dB
ΔV_{OUT}							
No	Output Noise Voltage	$T_A = 25^{\circ}C, f = 10Hz \le f \le 100kHz$		-	375	-	μV
ΔV_{OUT}	Long Term Stability	T _C = 25°C, t=1000 hours		-	-	150	mV
Δt							

Note: Conditions unless otherwise noted: $I_{OUT} = 500$ mA, $C_{IN} = 2.2$ μF , $C_{OUT} = 1 \mu f$, $0^{\circ}C \le T_{J} \le +125^{\circ}C$, Power Dissipation = 1.5W.

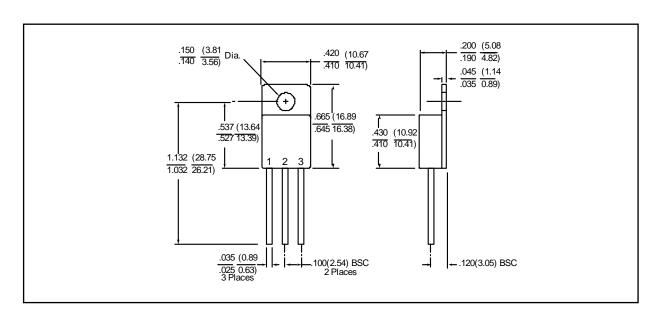
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MECHANICAL DIMENSIONS: In inches / mm

TO-257



PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
TO - 257, -15V Regulator	GROUND	V _{IN}	Vout

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