

TECHNICAL DATA
DATA SHEET 355, REV. -

**FIXED NEGATIVE 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 $T_C = 25^\circ\text{C}$ unless otherwise specified.

Parameter	Conditions		Maximum	Units
Input Voltage	$V_O = 15\text{V}$	-	35	Vdc
Ambient Operating Temperature Range (T_A)	-	-	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	-	-	-65 to +150	$^\circ\text{C}$
Thermal Resistance ($R_{\theta\text{JC}}$)	-	-	4.2	$^\circ\text{C/W}$
Rated Power	$T_C = +25^\circ\text{C}$	-	30	W

ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Units
V_O	Output Voltage	$T_J = 25^\circ\text{C}$	-1485	-15.0	-15.15	V
		$5\text{ mA} \leq I_O \leq 1\text{A}$ $P \leq 15\text{W}$	-14.25		-15.75	V
V_{RLINE}	Line Regulation	$T_J = 25^\circ\text{C}$, $V_{\text{IN}} = -17.5\text{V to } -30\text{V}$ $V_{\text{IN}} = -20\text{V to } -26\text{V}$	-	5.0	25	mV
			-	3.0	15	mV
V_{RLOAD}	Load Regulation	$T_J = 25^\circ\text{C}$ $5\text{ mA} \leq I_O \leq 1.5\text{A}$ $250\text{ mA} \leq I_O \leq 750\text{mA}$	-	-	35	mV
			-	-	21	mV
I_Q	Quiescent Current	$T_J = 25^\circ\text{C}$	-	1.5	3.0	mA
ΔI_Q	Quiescent Current Change	With Line	-	-	0.5	mA
		With Load, $5\text{ mA} \leq I_O \leq 1\text{A}$	-	-	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	A
I_{OS}	Short Circuit Current	$V_{\text{IN}} = -35\text{V}$	-	-	1.2	A
		$T_C = 25^\circ\text{C}$ $-55^\circ\text{C} \leq T_C \leq +125^\circ\text{C}$	-	-	2.8	A
$\frac{\Delta V_{\text{IN}}}{\Delta V_{\text{OUT}}}$	Ripple Rejection	$f = 120\text{Hz}$	54	70	-	dB
N_O	Output Noise Voltage	$T_A = 25^\circ\text{C}$, $f = 10\text{Hz} \leq f \leq 100\text{kHz}$	-	375	-	μV
$\frac{\Delta V_{\text{OUT}}}{\Delta t}$	Long Term Stability	$T_C = 25^\circ\text{C}$, $t=1000\text{ hours}$	-	-	150	mV

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

