

**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 ( $R_{\theta JC}$ )        | -                         | - | 4.2         | $^\circ\text{C/W}$ |
| Rated Power                                   | $T_C = +25^\circ\text{C}$ | - | 30          | W                  |

**ELECTRICAL CHARACTERISTICS**

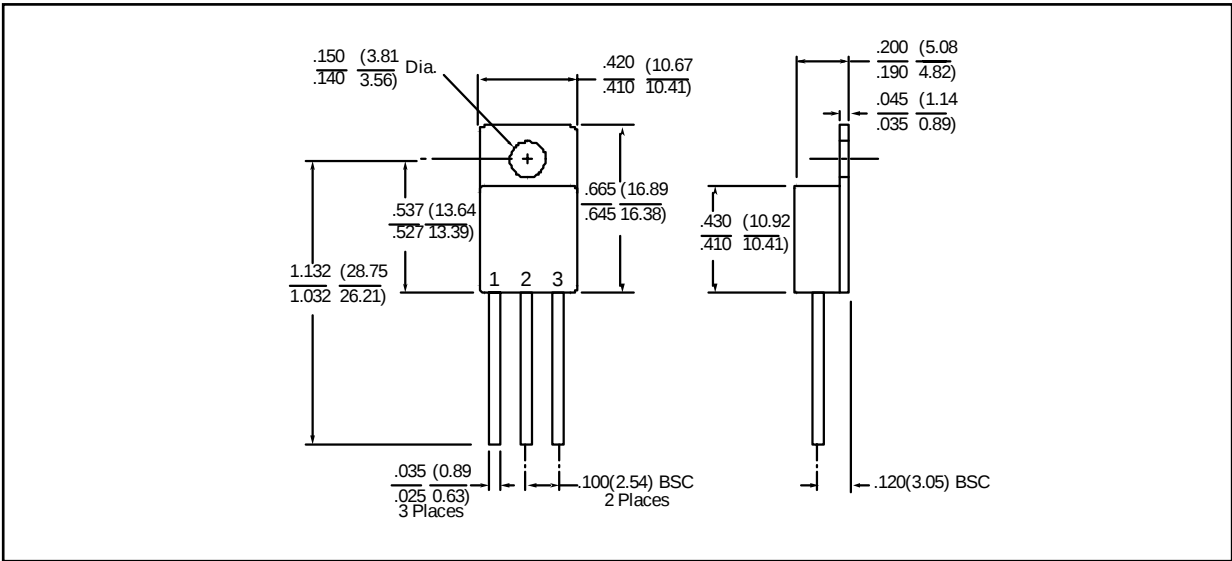
| Symbol                                 | Parameter                | Conditions                                                                       | Min.   | Typ.  | Max.   | Units         |
|----------------------------------------|--------------------------|----------------------------------------------------------------------------------|--------|-------|--------|---------------|
| $V_O$                                  | Output Voltage           | $T_J = 25^\circ\text{C}$                                                         | -1485  | -15.0 | -15.15 | V             |
|                                        |                          | $5\text{ mA} \leq I_O \leq 1\text{A}$                                            | -14.25 |       | -15.75 | V             |
|                                        |                          | $P \leq 15\text{W}$                                                              |        |       |        |               |
| $V_{RLINE}$                            | Line Regulation          | $T_J = 25^\circ\text{C}, V_{IN} = -17.5\text{V to } -30\text{V}$                 | -      | 5.0   | 25     | mV            |
|                                        |                          | $V_{IN} = -20\text{V to } -26\text{V}$                                           | -      | 3.0   | 15     | mV            |
| $V_{RLOAD}$                            | Load Regulation          | $T_J = 25^\circ\text{C}$                                                         |        |       |        |               |
|                                        |                          | $5\text{ mA} \leq I_O \leq 1.5\text{A}$                                          | -      | -     | 35     | mV            |
|                                        |                          | $250\text{ mA} \leq I_O \leq 750\text{mA}$                                       | -      | -     | 21     | mV            |
| $I_Q$                                  | Quiescent Current        | $T_J = 25^\circ\text{C}$                                                         | -      | 1.5   | 3.0    | mA            |
| $\Delta I_Q$                           | 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    | $V_{IN} = -35\text{V}$                                                           | -      | -     | 1.2    | A             |
|                                        |                          | $T_C = 25^\circ\text{C}$<br>$-55^\circ\text{C} \leq T_C \leq +125^\circ\text{C}$ |        |       | 2.8    |               |
| $\frac{\Delta V_{IN}}{\Delta V_{OUT}}$ | 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   | -      | $\mu\text{V}$ |
| $\frac{\Delta V_{OUT}}{\Delta t}$      | Long Term Stability      | $T_C = 25^\circ\text{C}, t = 1000\text{ hours}$                                  | -      | -     | 150    | mV            |

**Note:** Conditions unless otherwise noted:  $I_{OUT} = 500\text{ mA}$ ,  $C_{IN} = 2.2\text{ }\mu\text{F}$ ,  $C_{OUT} = 1\text{ }\mu\text{f}$ ,  $0^\circ\text{C} \leq T_J \leq +125^\circ\text{C}$ , 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 <sub>IN</sub> | V <sub>OUT</sub> |

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