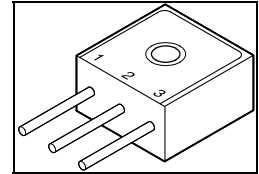
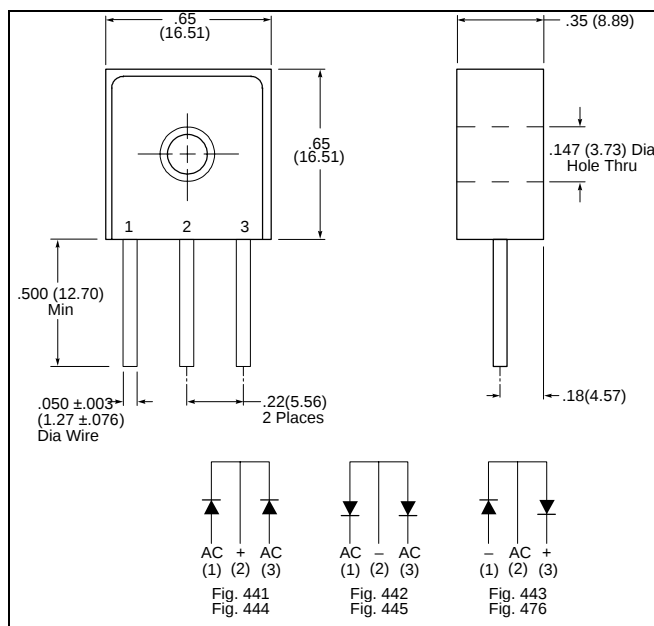


TECHNICAL DATA  
DATA SHEET 283, REV -**DOUBLER ASSEMBLY****DESCRIPTION: A 600 VOLT, 12 AMP, 30 NANOSECOND DOUBLER ASSEMBLY****MAX. RATINGS / ELECTRICAL CHARACTERISTICS** All ratings are at  $T_A = 25^\circ\text{C}$  unless otherwise specified.

| RATING                                                                 | CONDITIONS                                                                                                                      | MIN | TYP | MAX       | UNIT               |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----------|--------------------|
| Peak Inverse Voltage<br>(PIV)                                          | -                                                                                                                               | -   | -   | 600       | Vdc                |
| Average DC Output<br>Current ( $T_C = \text{Case Temp}$ )<br>( $I_O$ ) | $T_C = 55^\circ\text{C}$<br>$T_C = 100^\circ\text{C}$                                                                           | -   | -   | 12<br>7.5 | Amps               |
| Peak Single Cycle Surge<br>Current<br>( $I_{FSM}$ )                    | $t_p = 8.3 \text{ ms}$ Single<br>Half Cycle Sine<br>Wave,<br>Superimposed On<br>Rated Load                                      | -   | -   | 160       | Amps(pk)           |
| Peak Recurring Surge<br>Current<br>( $I_{FRM}$ )                       | $T_A = 25^\circ\text{C}$                                                                                                        | -   | -   |           | Amps               |
| Operating and Storage<br>Temp.<br>( $T_{op}$ & $T_{stg}$ )             | -                                                                                                                               | -55 | -   | +150      | $^\circ\text{C}$   |
| Maximum Forward<br>Voltage Per Leg<br>( $V_f$ )                        | $I_f = 8.0\text{A}_{dc}$<br>(300 $\mu\text{sec}$ pulse,<br>duty cycle < 2%)                                                     | -   | -   | 2.4       | Volts              |
| Maximum Instantaneous<br>Reverse Current At Rated<br>(PIV)             | $T_A = 25^\circ\text{C}$<br>$T_A = 100^\circ\text{C}$                                                                           | -   | -   | 10<br>200 | $\mu\text{Amps}$   |
| Reverse Recovery Time<br>( $t_{rr}$ )                                  | $I_f = 0.5\text{A}$ , $I_r = 1.0\text{A}$ , $I_{rr}$<br>= 0.25A<br><br>Measured on<br>discrete rectifiers<br>prior to assembly. | -   | -   | 30        | nsec               |
| Max. Thermal Resistance<br>( $R\theta_{JC}$ )                          | -                                                                                                                               | -   | -   | 2.0       | $^\circ\text{C/W}$ |

**SENSITRON**  
**TECHNICAL DATA**  
**DATA SHEET 283, REV -**

**MECHANICAL DIMENSIONS: In Inches / mm**



**Note:** Case finish - Black Anodized

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