

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The **ASI CD3922** is a UHF Communication Power Transistor for Broadband Class A, AB or C Applications.

**MAXIMUM RATINGS**

<b>I</b>	15 A
<b>V</b>	40 V
<b>P<sub>DISS</sub></b>	200 W @ T <sub>C</sub> = 25 °C
<b>T<sub>J</sub></b>	-65 °C to +200 °C
<b>T<sub>STG</sub></b>	-65 °C to +200 °C

<b>PACKAGE STYLE JO-2</b>	

**CHARACTERISTICS** T<sub>C</sub> = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>BV<sub>CEO</sub></b>	I <sub>C</sub> = 100 mA	40			<b>V</b>
<b>BV<sub>CES</sub></b>	I <sub>C</sub> = 100 mA	70			<b>V</b>
<b>I<sub>CES</sub></b>	V <sub>CE</sub> = 25 V			50	<b>mA</b>
<b>BV<sub>EBO</sub></b>	I <sub>E</sub> = 10 mA	4.0			<b>V</b>
<b>h<sub>FE</sub></b>	V <sub>CE</sub> = 5.0 V    I <sub>C</sub> = 5.0 A	10			<b>---</b>
<b>P<sub>out</sub></b>	V <sub>CE</sub> = 28 V    P <sub>in</sub> = 17 W    f = 108 MHz	100			<b>W</b>
<b>I<sub>C</sub>(<sup>h c</sup>)</b>				6.5	<b>A</b>
<b>V<sub>SWR</sub></b> <b>P<sub>G</sub></b>	V <sub>CE</sub> = 28 V    P <sub>out</sub> = 100 W    f = 108 MHz	30:1 7.7			<b>dB</b>