

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The **ASI AJT150** is Designed for

**FEATURES:**

- Input Matching Network
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

<b>I<sub>C</sub></b>	10 A
<b>V<sub>CB</sub></b>	60 V
<b>V<sub>CE</sub></b>	35 V
<b>P<sub>DISS</sub></b>	140 W
<b>T<sub>J</sub></b>	-65 °C to +200 °C
<b>T<sub>STG</sub></b>	-65 °C to +150 °C
<b>θ<sub>JC</sub></b>	0.57 °C/W

**PACKAGE STYLE .400 2L FLG (A)**

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.135 / 3.43	.145 / 3.68
B	.100 / 2.54	.120 / 3.05
C	.050 / 1.27	
D	.376 / 9.55	.396 / 10.06
E	.110 / 2.79	.130 / 3.30
F	.395 / 10.03	.407 / 10.34
G	.193 / 4.90	
H	.490 / 12.45	.510 / 12.95
I	.100 / 2.54	
J	.690 / 17.53	.710 / 18.03
K	.890 / 22.61	.910 / 23.11
L	.003 / 0.08	.006 / 0.18
M	.052 / 1.32	.072 / 1.83
N	.118 / 3.00	.131 / 3.33
P		.230 / 5.84

**ORDER CODE: ASI10548**

**CHARACTERISTICS**  $T_C = 25\text{ }^\circ\text{C}$ 

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
<b>BV<sub>CEO</sub></b>	I <sub>C</sub> = 50 mA	35			<b>V</b>
<b>BV<sub>CER</sub></b>	I <sub>C</sub> = 50 mA      R <sub>BE</sub> = 10 Ω	60			<b>V</b>
<b>BV<sub>EBO</sub></b>	I <sub>E</sub> = 10 mA	4.0			<b>V</b>
<b>I<sub>CES</sub></b>	V <sub>BE</sub> = 50 V			5	<b>mA</b>
<b>h<sub>FE</sub></b>	V <sub>CE</sub> = 5.0 V      I <sub>C</sub> = 1.0 A	10		100	<b>---</b>
<b>P<sub>G</sub></b> <b>η<sub>C</sub></b>	V <sub>CC</sub> = 50 V      P <sub>OUT</sub> = 150 W      f = 960 - 1215 MHz	7.5 40			<b>dB</b> <b>%</b>