

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The **ASI AVD090P** is Designed for Class C, DME/TACAN Applications up to 1150 MHz.

**FEATURES:**

- Internal Input Matching Network
- $P_G = 8.5$  dB at 90 W/1150 MHz
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

$I_C$	6.5 A PEAK
$V_{CB}$	55 V
$P_{DISS}$	250 W PEAK
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +150 °C
$\theta_{JC}$	0.6 °C/W

**PACKAGE STYLE .280 4L PILL (A)**

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.095 / 2.41	.105 / 2.67
B	.195 / 4.95	.205 / 5.21
C	1.000 / 25.40	
D	.004 / 0.10	.007 / 0.18
E	.050 / 1.27	.065 / 1.65
F		.145 / 3.68
G	.275 / 6.99	.285 / 7.21

**ORDER CODE: ASI10563**

**CHARACTERISTICS**  $T_C = 25$  °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CBO}$	$I_C = 10$ mA	65			V
$BV_{CER}$	$I_C = 10$ mA $R_{BE} = 10$ $\Omega$	65			V
$BV_{EBO}$	$I_E = 1.0$ mA	3.5			V
$I_{CES}$	$V_{CB} = 50$ V			6.25	mA
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 1.0$ A	10		100	---
$P_G$	$V_{CC} = 50$ V $P_{OUT} = 90$ W $f = 1025 - 1150$ MHz	8.5			dB
$\eta_c$		35			%