



AVD0.5S

# NPN SILICON RF POWER TRANSISTOR

## DESCRIPTION:

The **ASI AVD0.5S** is Designed for Class A, DME/TACAN Applications up to 1150 MHz.

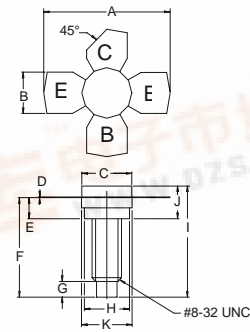
## FEATURES:

- Class A Operation
- $P_G = 10$  dB at 0.5 W/1150 MHz
- **Omnigold™** Metalization System

## MAXIMUM RATINGS

$I_C$	300 mA
$V_{CE}$	20 V
$P_{DISS}$	--- W
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +150 °C
$\theta_{JC}$	35.0 °C/W

## PACKAGE STYLE .280 4L STUD



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	1.010 / 25.65	1.055 / 26.80
B	.220 / 5.59	.230 / 5.84
C	.270 / 6.86	.285 / 7.24
D	.003 / 0.08	.007 / 0.18
E	.117 / 2.97	.137 / 3.48
F	.572 / 14.53	
G	.130 / 3.30	
H	.245 / 6.22	.255 / 6.48
I	.640 / 16.26	
J	.175 / 4.45	.217 / 5.51
K	.275 / 6.99	.285 / 7.24

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CBO}$	$I_C = 1.0$ mA	50			V
$BV_{CEO}$	$I_C = 5.0$ mA	20			V
$BV_{EBO}$	$I_E = 1.0$ mA	3.5			V
$I_{CES}$	$V_{CE} = 28$ V			1.0	mA
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 100$ mA	15		120	---
$P_G$	$V_{CC} = 12.5$ V $P_{OUT} = 0.5$ W $f = 1025 - 1150$ MHz	10			dB

