

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The ASI HF20-12S is Designed for

**FEATURES:**

- $P_G = 18$  dB min. at 20 W/30 MHz
- $IMD_3 = -30$  dBc max. at 20 W<sub>(PEP)</sub>
- *Omnigold*<sup>TM</sup> Metalization System

**MAXIMUM RATINGS**

$I_C$	4.5 A
$V_{CBO}$	36 V
$V_{CEO}$	18 V
$V_{EBO}$	4.0 V
$P_{DISS}$	80 W @ $T_C = 25$ °C
$T_J$	-65 °C to +200 °C
$T_{STG}$	-65 °C to +150 °C
$q_{JC}$	2.2 °C/W

**PACKAGE STYLE .380 4L STUD**

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.980 / 24.89	
C	.370 / 9.40	.385 / 9.78
D	.004 / 0.10	.007 / 0.18
E	.320 / 8.13	.330 / 8.38
F	.100 / 2.54	.130 / 3.30
G	.450 / 11.43	.490 / 12.45
H	.090 / 2.29	.100 / 2.54
I	.155 / 3.94	.175 / 4.45
J		.750 / 19.05

**ORDER CODE: ASI10595**

**CHARACTERISTICS**  $T_C = 25$  °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CBO}$	$I_C = 50$ mA	36			V
$BV_{CES}$	$I_C = 50$ mA	36			V
$BV_{CEO}$	$I_C = 50$ mA	18			V
$BV_{EBO}$	$I_E = 5.0$ mA	4.0			V
$I_{CES}$	$V_{CE} = 15$ V			5	mA
$h_{FE}$	$V_{CE} = 5.0$ V $I_C = 1.0$ A	10		200	---
$C_{ob}$	$V_{CB} = 12.5$ V $f = 1.0$ MHz		100		pF
$G_P$ $IMD_3$	$V_{CC} = 12.5$ V $I_{CQ} = 25$ mA $f = 30$ MHz $P_{OUT} = 20$ W (PEP)	15	18	-30	dB dBc



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