

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

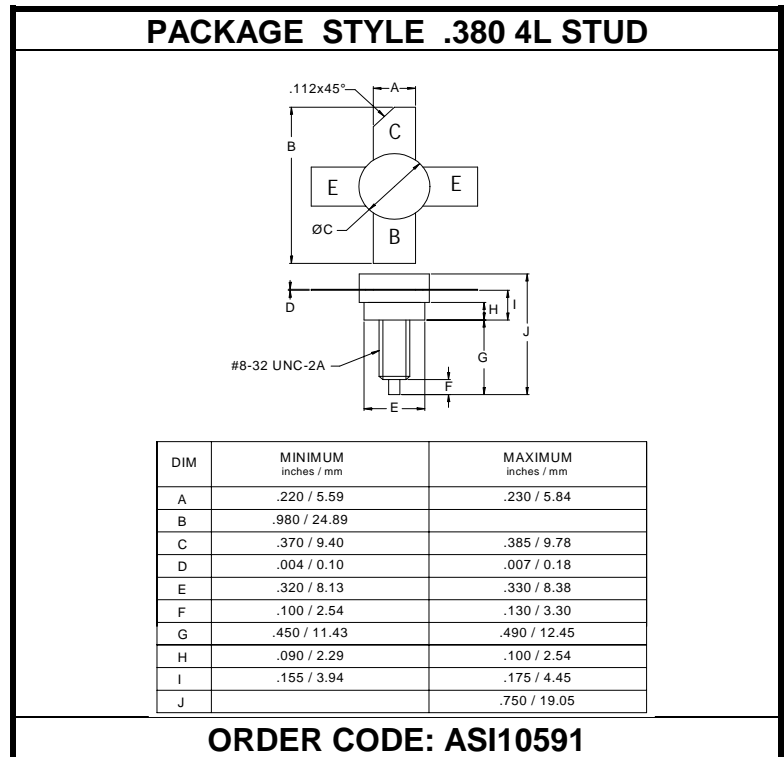
The **ASI HF5-12S** is Designed for broadband operation in commercial and amateur communication equipment up to 30 MHz.

**FEATURES:**

- $P_G = 15$  dB min. at 5 W/30 MHz
- $IMD_3 = -30$  dBc max. at 5 W(PEP)
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

$I_C$	4.5 A
$V_{CB0}$	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
$\theta_{JC}$	13.5 °C/W


**CHARACTERISTICS**  $T_C = 25$  °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CB0}$	$I_C = 50$ 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
$G_P$	$V_{CC} = 12.5$ V $I_{CQ} = 15$ mA $f = 30$ MHz	15		---	dB
$IMD_3$	$P_{OUT} = 5.0$ W(PEP)			-30	dBc