

# NPN SILICON RF POWER TRANSISTOR

**DESCRIPTION:**

The **ASI HF8-28F** is a common Emitter transistor, designed for broadband amplifier operations in military, commercial and amateur communication equipment.

**FEATURES:**

- $P_G = 21$  dB min. at 8 W/30 MHz
- $IMD_3 = -30$  dBc max. at 8 W(PEP)
- **Omnigold™** Metalization System

**MAXIMUM RATINGS**

$I_C$	1.0 A
$V_{CBO}$	65 V
$V_{CEO}$	35 V
$V_{CES}$	65 V
$V_{EBO}$	4.0 V
$P_{DISS}$	13.0 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

**PACKAGE STYLE .380 4L FLG**

DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.220 / 5.59	.230 / 5.84
B	.785 / 19.94	
C	.720 / 18.29	.730 / 18.54
D	.970 / 24.64	.980 / 24.89
E		.385 / 9.78
F	.004 / 0.10	.006 / 0.15
G	.085 / 2.16	.105 / 2.67
H	.160 / 4.06	.180 / 4.57
I		.280 / 7.11
J	.240 / 6.10	.255 / 6.48

**ORDER CODE: ASI10600**

**CHARACTERISTICS**  $T_C = 25$  °C

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CEO}$	$I_C = 200$ mA		35			V
$BV_{CES}$	$I_C = 200$ mA		65			V
$BV_{CBO}$	$I_C = 200$ mA		65			V
$BV_{EBO}$	$I_E = 10$ mA		4.0			V
$I_{CBO}$	$V_{CB} = 30$ V				1.0	mA
$h_{FE}$	$V_{CE} = 5.0$ V	$I_C = 200$ mA	5.0		---	---
$C_{OB}$	$V_{CB} = 30$ V	$f = 1.0$ MHz			15	pF
$G_P$	$V_{CC} = 28$ V	$P_{IN} = 1.0$ W	10		---	dB
$P_{OUT}$		$f = 150$ MHz	10			W