

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

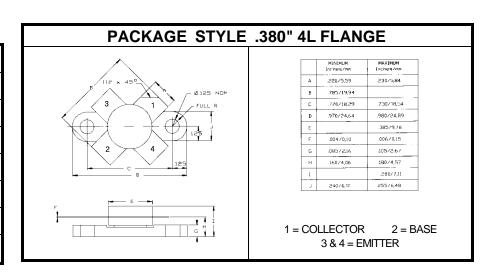
The **HF50-12** is Designed for 12.5 Volt Class AB and Class C Power Amplifier Applications Operating in the 2 to 32 MHz HF Band.

FEATURES INCLUDE:

- High Gain, 16 dB Typical @ 30 MHz
- Emitter Ballasting
- Withstands Severe Mismatch

MAXIMUM RATINGS

Ic	10 A				
V _{CB}	36 V				
V _{CE}	18 V				
V _{EB}	4.0 V				
P _{DISS}	175 W @ T _C = 25 ^O C				
ΤJ	-65 ^O C to +200 ^O C				
T _{STG}	-65 °C to +150 °C				
q JC	1.0 ^O C/W				



CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV _{CES}	$I_C = 100 \text{ mA}$	36			V
BV _{CEO}	$I_C = 100 \text{ mA}$	18			V
BV _{EBO}	I _E = 10 mA	4.0			V
I _{CES}	V _{CE} = 15 V			10	mA
h _{FE}	$V_{CE} = 5.0 \text{ V}$ $I_{C} = 5.0 \text{ A}$	20			
C _{ob}	$V_{CB} = 12.5 \text{ V}$ f = 1.0 MHz		200		pF
G _{PE} h IMD	$V_{CC} = 12.5 \text{ V}$ $I_{CQ} = 50 \text{ mA}$ $P_{OUT} = 50 \text{ W(PEP)}$ $f = 30 \text{ MHz}$	15	16 55 -30		dB % dB

ADVANCED SEMICONDUCTOR, INC.