

**NPN Silicon RF power transistor**

**MRF427 / MRF427A**

**Description:**

MRF427/MRF427A is designed primarily for high voltage applications as a high power linear amplifier from 2.0 to 30MHz. Idea for marine and base station equipment.

**Features:**

Specified 50 Volt, 30 MHz Characteristics:  
 Output Power = 25 W (PEP), Minimum Gain = 18 dB  
 Intermodulation Distortion @ 25 W (PEP), IMD = -34 dB (Max)

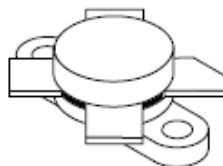
**Maximum Ratings at  $T_U = 25$**

Symbol	Test Conditions	Characteristics		Units
BVCES	IC=10 mA	Max.	110	V
BVCEO	IC=30 mA	Max.	65	V
BVEBO	IE=5 mA	Max.	4	V
IC		Max.	4	A
Ptot		Max.	55	W
TSTG		Min.	-65	
		Max.	150	
TjM		Max.	175	

**Characteristics at  $T_U = 25$  (  $V_{CC} = 50 V$   $f = 30 MHz$  )**

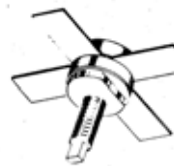
Symbol	Test Conditions	Characteristics		Units
Pout		Typ.	25PEP	W
GP		Typ.	18	dB
$\eta$		Typ.	45	%
hFE	IC = 0.5A VCE =10V	Typ.	50	
VCEsat	IC = 3A IB =0.5 A	Max.	1.5	V
ICES	VCE =50V	Max.	10	mA
CCBO	VCB =50V	Typ.	60	pF
d3		Max.	< -30	dB

**Drawings:**



**CASE211/SOT121**

**OR**



**CASE 145A**