

## High band/VHF FM power transistor

## MRF261

### Description:

MRF261 is designed as 10W, 5.2dB, 12.5V, 136-175MHz, TO220 high band/VHF FM transistors.

### Maximum Ratings at TU = 25

Symbol	Test Conditions	Characteristics		Units
BV <sub>CES</sub>	I <sub>C</sub> =10 mA	Max.	36	V
BV <sub>CEO</sub>	I <sub>C</sub> =30 mA	Max.	18	V
BV <sub>EBO</sub>	I <sub>E</sub> =5 mA	Max.	4	V
I <sub>C</sub>		Max.	2	A
P <sub>tot</sub>		Max.	30	W
TSTG		Min.	-65	
		Max.	150	
T <sub>JM</sub>		Max.	175	

### Data at TU = 25 (V<sub>CC</sub> =12.5 V f=175 MHz)

Symbol	Test Conditions	Characteristics		Units
P <sub>out</sub>		Typ.	10	W
GP		Typ.	10	dB
		Typ.	60	%
h <sub>FE</sub>	I <sub>C</sub> = 0.5A V <sub>CE</sub> =5V	Typ.	45	
V <sub>CEsat</sub>	I <sub>C</sub> =0.5A I <sub>B</sub> =0.1 A	Max.	1	V
I <sub>CES</sub>	V <sub>CE</sub> =18V	Max.	1	mA
CC <sub>BO</sub>	V <sub>CB</sub> =18V	Typ.	50	pF

### Drawings:

