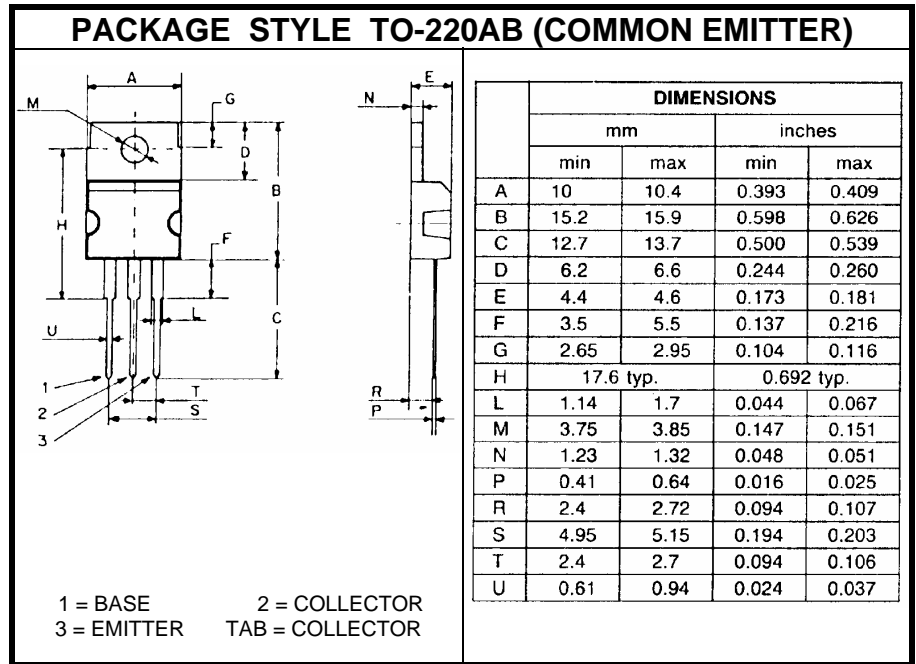


DESCRIPTION:

The **HG MRF475** is Designed for 13.6 V FM Large-Signal Amplifier Applications to 30 MHz.

MAXIMUM RATINGS

I_C	4.0 A
V_{CE}	18 V
V_{CB}	48 V
P_{DISS}	10 W @ $T_C = 25\text{ }^\circ\text{C}$
T_{STG}	-65 $^\circ\text{C}$ to +150 $^\circ\text{C}$
T_J	-65 $^\circ\text{C}$ to +150 $^\circ\text{C}$
θ_{JC}	12.5 $^\circ\text{C/W}$



CHARACTERISTICS $T_C = 25\text{ }^\circ\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 20\text{ mA}$	18			V
BV_{CES}	$I_C = 50\text{ mA}$	48			V
BV_{EBO}	$I_E = 5.0\text{ mA}$	4.0			V
I_{CBO}	$V_{CB} = 25\text{ V}$			1.0	mA
h_{FE}	$V_{CE} = 5.0\text{ V}$ $I_C = 500\text{ mA}$	30	60		---
C_{ob}	$V_{CB} = 13.6\text{ V}$ $f = 1.0\text{ MHz}$		125	145	pF
G_{PE}	$V_{CC} = 13.6\text{ V}$ $I_{CO} = 20\text{ mA}$ $P_{out} = 12\text{ W (PEP)}$	10	12		dB
η	$f_1 = 30\text{ MHz}$ $f_2 = 30.001\text{ MHz}$	40			%
IMD				-30	dB

Note : Above parameters , ratings , limits and conditions are subject to change.