SILICON NPN RF POWER TRANSISTOR

DESCRIPTION:

The **ASI MRF264** is Designed for Class C VHF Mobile Radio Power Amplifier Applications Operating at 12.5 Volts.

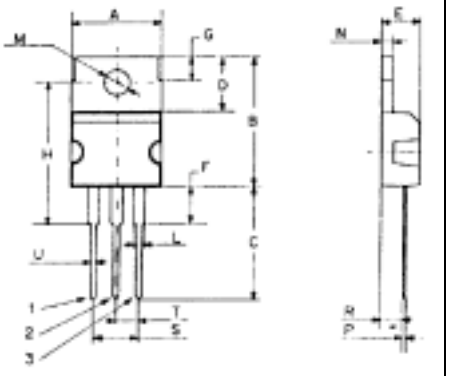
FEATURES:

- P_{OUT} = 30 W Min. @ 175 MHz
- Gold Metalization
- Economical **TO-220 CE** Package

MAXIMUM RATINGS

I_C	6.0 A
V_{CE}	16 V
P_{DISS}	80 W @ T_C = 25 ^{O}C
T_J	-65 ^{O}C to +200 ^{O}C
T_{STG}	-65 ^{O}C to +150 ^{O}C
θ_{JC}	1.6 ^{O}C/W

PACKAGE STYLE TO-220



1 = BASE 2 = EMITTER 3 = COLLECTOR
MOUNTING TAB = EMITTER

	DIMENSIONS			
	mm		inches	
	min	max	min	max
A	10	10.4	0.393	0.409
B	15.2	15.9	0.598	0.626
C	12.7	13.7	0.500	0.539
D	6.2	6.6	0.244	0.260
E	4.4	4.6	0.173	0.181
F	3.5	5.5	0.137	0.216
G	2.65	2.95	0.104	0.116
H	17.6 typ.		0.692 typ.	
L	1.14	1.7	0.044	0.067
M	3.75	3.85	0.147	0.151
N	1.23	1.32	0.048	0.051
P	0.41	0.64	0.016	0.025
R	2.4	2.72	0.094	0.107
S	4.95	5.15	0.194	0.203
T	2.4	2.7	0.094	0.106
U	0.61	0.94	0.024	0.037

CHARACTERISTICS T_C = 25 ^{O}C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	I_C = 20 mA	16			V
BV_{CES}	I_C = 20 mA	36			V
BV_{EBO}	I_E = 5.0 mA	4.0			V
I_{CBO}	V_{CB} = 15 V			5.0	mA
h_{FE}	V_{CE} = 5.0 V I_C = 500 mA	20	50		---
C_{OB}	V_{CB} = 15 V f = 1.0 MHz			20	pF
P_G η_C	V_{CE} = 12.5 V P_{OUT} = 30 W f = 175 MHz	5.2 60			dB %