

NPN Silicon RF power transistor

MRF240

Description:

MRF240 is designed for 13.6V VHF large-signal class C and class AB linear power amplifier applications in commercial and industrial equipment.

Features:

Specified 13.6 V, 160 MHz Performance:

Output Power = 40 Watts

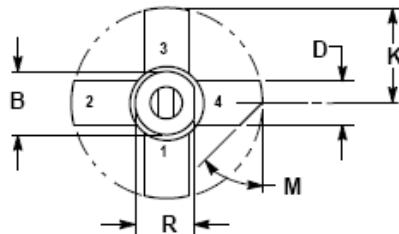
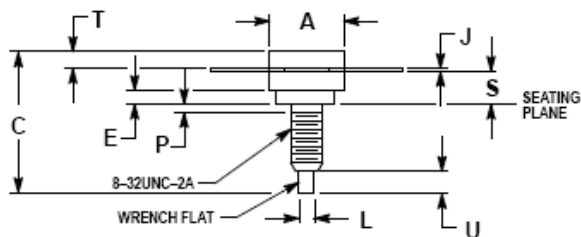
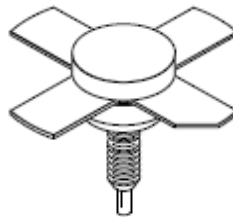
Power Gain = 9.0 dB Min

Efficiency = 55% Min

Maximum Ratings

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V _{ceo}	16	V _{dc}
Collector-Base Voltage	V _{cbo}	36	V _{dc}
Emitter-Base Voltage	V _{ebo}	4.0	V _{dc}
Collector Current Continuous	I _c	8.0	A _{dc}
Total Device Dissipation@T _c =25C	P _d	100	W
Storage Temperature range	T _{stg}	-65-150	°C

Drawings:



NOTES:

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982
- CONTROLLING DIMENSION: INCH.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.370	0.365	9.40	9.78
B	0.320	0.330	8.13	8.38
C	0.670	0.790	17.02	20.07
D	0.215	0.235	5.48	5.97
E	0.070	—	1.78	—
J	0.003	0.007	0.08	0.18
K	0.490	—	12.45	—
L	0.055	0.070	1.40	1.78
M	45° NOM		45° NOM	
P	—	0.050	—	1.27
R	0.299	0.307	7.59	7.80
S	0.158	0.178	4.01	4.52
T	0.083	0.100	2.11	2.54
U	0.098	0.132	2.49	3.35

STYLE 1:

- PIN 1. EMITTER
- BASE
- EMITTER
- COLLECTOR

CASE 145A-09