



MRF476

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI MRF476** is Designed for 12.5 V FM Large-Signal Amplifier Applications to 30 MHz.

MAXIMUM RATINGS

I_C	1.0 A
V_{CE}	18 V
V_{CB}	36 V
P_{DISS}	10 W @ $T_C = 25^\circ\text{C}$
T_{STG}	-65°C to $+150^\circ\text{C}$
θ_{JC}	17.5 $^\circ\text{C/W}$

PACKAGE STYLE TO-220AB (COMMON 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

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

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CEO}	$I_C = 10\text{ mA}$	18			V
BV_{CES}	$I_C = 25\text{ mA}$	36			V
BV_{EBO}	$I_E = 1.0\text{ mA}$	4.0			V
I_{CBO}	$V_{CB} = 15\text{ V}$			0.5	mA
h_{FE}	$V_{CE} = 5.0\text{ V}$ $I_C = 250\text{ mA}$	10	50		---
C_{ob}	$V_{CB} = 12.5\text{ V}$ $f = 1.0\text{ MHz}$		25	35	pF
G_{PE}	$V_{CC} = 12.5\text{ V}$ $I_{CQ} = 20\text{ mA}$ $P_{out} = 3.0\text{ W (PEP)}$	15	18		dB
η	$f_1 = 30\text{ MHz}$ $f_2 = 30.001\text{ MHz}$	40			%
IMD			-35	-30	dB

ADVANCED SEMICONDUCTOR, INC.

REV. A

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1/1