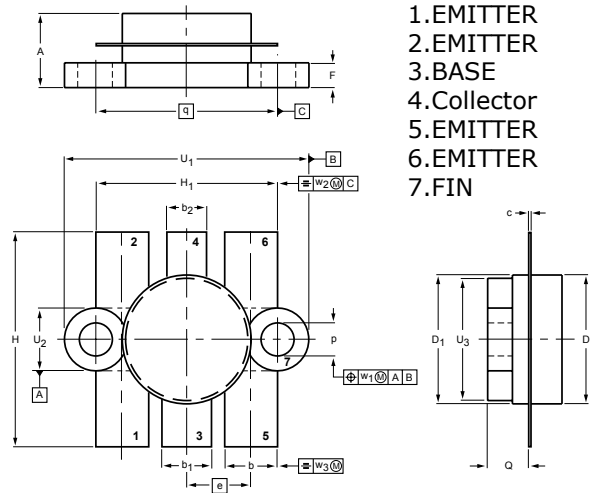


## DESCRIPTION

Designed primarily for wideband large-signal output amplifier stages in the 100 to 500 MHz frequency range.

## FEATURES

- Specified 28V, 400MHz Characterist
- $P_o = 40W$
- $G_p = 8.5 \text{ dB min. at } 40 \text{ W}/400 \text{ MHz}$
- Omnigold™ Metalization System



## DIMENSIONS

UNIT	A	b	b <sub>1</sub>	b <sub>2</sub>	c	D	D <sub>1</sub>	e	F	H	H <sub>1</sub>	p	Q	q	U <sub>1</sub>	U <sub>2</sub>	U <sub>3</sub>	w <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>
mm	7.39 6.32	5.59 5.33	5.34 5.08	4.07 3.81	0.18 0.07	12.86 12.59	12.83 12.57	6.48	2.54 2.28	22.10 21.08	18.55 18.28	3.31 2.97	4.58 3.98	18.42	25.23 23.95	6.48 6.07	12.76 12.06	0.51	1.02	0.26
inches	0.291 0.249	0.220 0.210	0.210 0.200	0.160 0.150	0.007 0.003	0.505 0.496	0.505 0.495	0.255	0.100 0.090	0.870 0.830	0.730 0.720	0.130 0.117	0.180 0.157	0.725	0.993 0.943	0.255 0.239	0.502 0.475	0.02	0.04	0.01

## MAXIMUM RATINGS

CHARACTERISTICS	SYMBOL	RATINGS	UNITS
Collector-Base Voltage	$V_{CB0}$	60	V
Collector-Emitter Voltage	$V_{CES}$	60	V
Collector-Emitter Voltage	$V_{CEO}$	34	V
Collector Current	$I_c$	4.5	A
Emitter-Base Voltage	$V_{EBO}$	4	V
Collector Power Dissipation	$P_{DISS}$	110	W
Junction Temperature	$T_J$	-65 to 175	°C
Storage Temperature Range	$T_{STG}$	-65 to 175	°C

## ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_c=40mA, I_B=0$	34	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CES}$	$I_c=40mA, V_{EB}=0$	60	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=4mA, I_c=0$	4	-	-	V
Collector Cutoff Current	$I_{CBO}$	$(V_{CB} = 30 \text{ V}, I_E = 0)$			1	mA
DC Current Gain	$h_{FE}$	$V_{CE}=5V, I_c=2A$	10	-	120	
Collector Output Capacitance	$C_{Ob}$	$V_{CB}=28V, I_E=0$ $f=1MHz$	-	-	80	pF
Power Gain	$G_p$	$V_{CC}=28V, P_{OUT}=40W,$	8.5	-	-	dB
Collector Efficiency	$\eta_c$	$f=400MHz$	60	-	-	%

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