mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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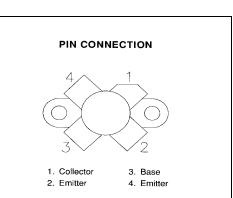
RF & MICROWAVE TRANSISTORS VHF MOBILE APPLICATIONS

Features

- 175 MHz
- 12.5 VOLTS
- **P**OUT = **30W MINIMUM**
- G_P = 10 dB GAIN
- COMMON EMITTER CONFIGURATION

DESCRIPTION:

The MS1337 is a 12.5 volt epitaxial silicon NPN planar transistor designed primarily for Class C, VHF communication applications. The MS1337 utilizes an emitter ballasted die geometry to withstand severe load mismatch conditions.



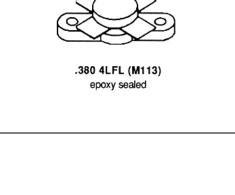
ABSOLUTE MAXIMUM RATINGS (Tcase = 25°C)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	36	V
V _{CEO}	Collector-Emitter Voltage	18	V
V _{CES}	Collector-Emitter Voltage	36	V
V _{EBO}	Emitter-Base Voltage	4.0	V
I _c	Device Current	8.0	Α
P _{DISS}	Power Dissipation	70	W
TJ	Junction Temperature	+200	°C
T _{STG}	Storage Temperature	-65 to +150	°C

Thermal Data

R _{TH(J-C)}	Junction-case Thermal Resistance	1.2	°C/W
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MS1337





MS1337

ELECTRICAL SPECIFICATIONS (Tcase = 25 \circ C) Static

Symbol		Test Conditions		Value		
			Min.	Тур.	Max.	Unit
BV _{CES}	l _c = 15 mA	V _{BE} = 0 mA	36			V
BV _{CEO}	l _E = 50 mA	I _B = 0 mA	18			V
BV _{EBO}	l _E = 5 mA	I _c = 0 mA	4.0			V
I _{CBO}	V _{CB} = 15 V	I _E = 0 mA			5	mA
H _{FE}	V _{CE} = 5 V	l _c = 250 mA	20		200	

DYNAMIC

Symbol	Test Conditions		Value				
				Min.	Тур.	Max.	Unit
POUT	f =175 MHz	P _{IN} = 3.0 W	V _{CE} =12.5 V	30			w
G _P	f =175 MHz	P _{IN} = 3.0 W	V _{CE} =12.5 V	10			dB
Cob	f =1 MHz	V _{CB} = 15 V				120	pf

IMPEDANCE DATA

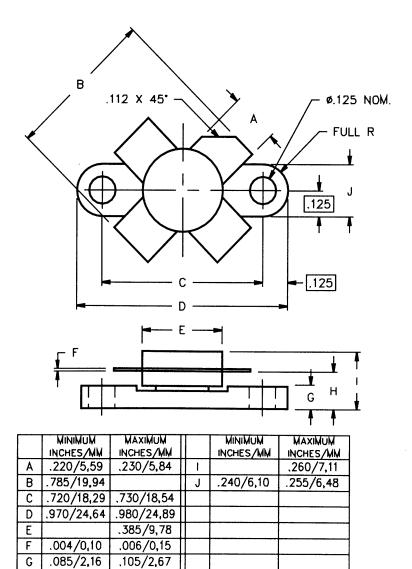
FREQ	$Z_{IN}(\Omega)$	$Z_{CL}(\Omega)$
175 MHz	1.0 +j0.4	2.3 + j0.1

P_{IN} = 3.0W V_{CE} = 12.5V



MS1337

PACKAGE MECHANICAL DATA



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.160/4,06

.180/4,57