

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!



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MS2201

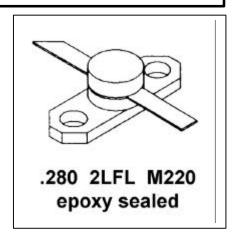
RF & MICROWAVE TRANSISTORS AVIONICS APPLICATIONS

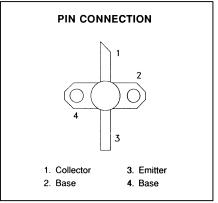
Features

- 1025-1150 MHz
- GOLD METALLIZATION
- INFINITE VSWR CAPABILITY @ RATED CONDITIONS
- Pout = 2 W MINIMUM
- G_P= 9 dB

DESCRIPTION:

The MS2201 is a silicon NPN, Class C microwave transistor designed for Class C driver applications under DME or IFF pulse conditions. This device is capable of withstanding an infinite load VSWR at any phase angle under rated conditions.





ABSOLUTE MAXIMUM RATINGS (Tcase = 25°C)

Symbol	Parameter	Value	Unit
P _{DISS}	Power Dissipation	10	W
V _{cc}	Collector-Supply Voltage	37	V
T _J	Junction Temperature	200	^o C
Ic	Device Current	250	mA
T _{STG}	Storage Temperature	-65 to +200	^o C

Thermal Data

$R_{TH(J-C)}$	Junction-case Thermal Resistance*	10	°C/W				



MS2201

ELECTRICAL SPECIFICATIONS (Tcase = 25°C)

STATIC

Symbol	Test Conditions			Value		
			Min.	Тур.	Max.	Unit
BV _{CBO}	I _C = 1 mA	I _E = 0 mA	45			٧
BV _{CER}	I _C = 5 mA	$R_{BE} = 10\Omega$	45			٧
BV _{EBO}	I _E = 1 mA	$I_C = 0 \text{ mA}$	3.5			٧
I _{CES}	V _{CE} = 35 V				1.0	mA
HFE	V _{CE} = 5 V	I _C = 100 mA	30		300	

DYNAMIC

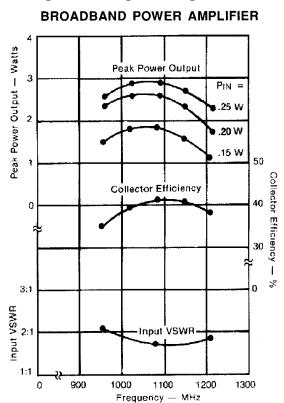
Symbol	Test Conditions			Value			Unit
Syllibol				Min.	Тур.	Max.	Offic
P _{OUT}	f =1025 - 1150 MHz	P _{IN} = 250mW	$V_{CE} = 35V$	2			W
ης	f =1025 - 1150 MHz	P _{IN} = 250mW	V _{CE} =35V	35			%
G _P	f =1025 - 1150 MHz	P _{IN} = 250mW	V _{CE} =35V	9			dB

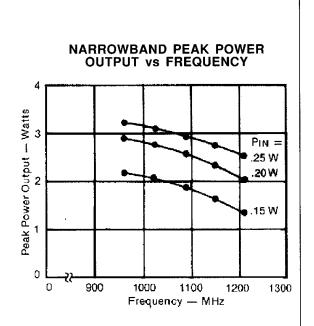
Conditions: Pulse Width = $10 \mu s$ Duty Cycle = 1%

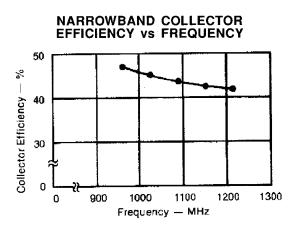


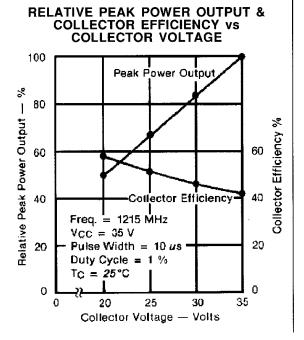


TYPICAL PERFORMANCE







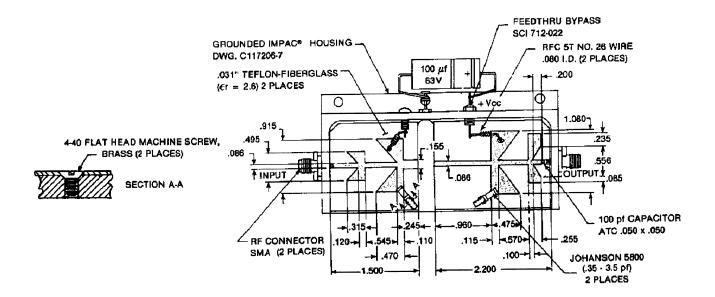




MS2201

TEST CIRCUIT

Ref.: Dwg. No. C127298



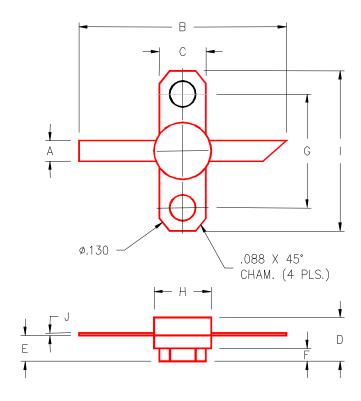
All dimensions are in inches.





PACKAGE MECHANICAL DATA

PACKAGE STYLE M220



	MINIMUM	MAXIMUM			MINIMUM	MAXIMUM
	INCHES/MM	INCHES/MM	Ц		INCHES/MM	INCHES/MM
Α	.100/2,54			J	.003/0,08	.006/0,15
В	1.050/26,67					
С	.250/6,35					
D		.210/5,33				
Ε	.120/3,05	.130/3,30				
F	.062/1,58					
G	.562/14,28					
Н		.285/7,24				
1	.800/20,32					