

140 COMMERCE DRIVE MONTGOMERYVILLE, PA 18936-1013

PHONE: (215) 631-9840

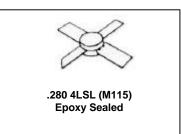
FAX: (215) 631-9855

MS2206

RF & MICROWAVE TRANSISTORS AVIONICS APPLICATIONS

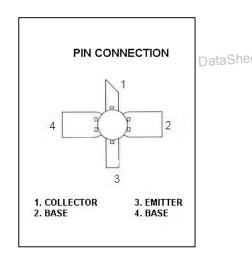
Features

- 1025-1150 MHz
- GOLD METALLIZATION
- INFINITE VSWR CAPABILITY @ RATED CONDITIONS
- Pout = 4 W MINIMUM
- G_P= 10 dB
- COMMON BASE CONFIGURATION



DESCRIPTION:

The MS2206 is a common base, silicon NPN 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	7.5	W
V _{CE}	Collector-Emitter Bias Voltage	37	V
TJ	Junction Temperature	200	°C
Ic	Device Current	1.0	Α
T _{STG}	Storage Temperature	-65 to +200	٥С

Thermal Data

R _{TH(J-C)}	Junction-case Thermal Resistance*	35	°C/W

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ELECTRICAL SPECIFICATIONS (Tcase = 25°C) STATIC

Symbol	Test Conditions			Value		
Symbol			Min.	Typ.	Max.	Unit
BV _{CBO}	I _C = 1 mA	$I_E = 0 \text{ mA}$	45			V
BV _{CEO}	I _C = 5 mA	$I_B = 0mA$	20			V
BV _{EBO}	I _E = 1.0 mA	$I_C = 0 \text{ mA}$	3.5			V
I _{CES}	V _{CE} = 35 V				1.0	mA
HFE	V _{CE} = 5 V	I _C = 100 mA	20		120	

DYNAMIC

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Symbol Test		Conditions		Value			Unit	
Symbol rest conditions			Min.	Typ.	Max.	Offic		
P _{OUT}	f =1025 - 1150 MHz	$P_{IN} = 400 \text{mW}$	$V_{CE} = 35V$	4			W	D
G _P	f =1025 - 1150 MHz	P _{IN} = 400mW _{pat}	taS Yeet 35.Vom	10			dB	

Conditions: Pulse Width = 10 μ s Duty Cycle = 1%

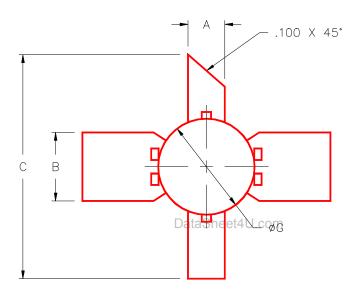
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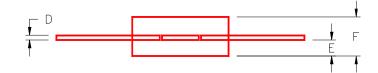
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PACKAGE MECHANICAL DATA

PACKAGE STYLE M115



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	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
	INCHES/MM	INCHES/MM	INCHES/MM	INCHES/MM
Α	.095/2,41	.105/2,67		
В	.195/4,95	.205/5,21		
С	1.000/25,40			
D	.004/0,10	.007/0,18		
Е	.050/1,27	.065/1,65		
F	.120/3,05	.135/3,43		
G	.275/6,99	.285/7,21		

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