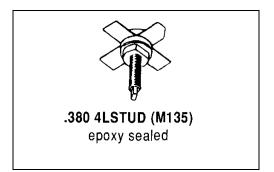


MS1202

RF & MICROWAVE TRANSISTORS FM MOBILE APPLICATIONS

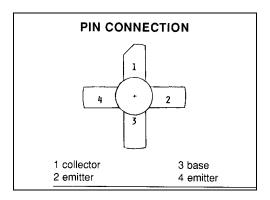
Features

- 175 MHz
- 12.5 VOLTS
- P_{OUT} = 7.0 W
- G_P = 8.4 dB MINIMUM
- COMMON EMITTER CONFIGURATION



DESCRIPTION:

The MS1202 is a epitaxial silicon NPN transistor designed for 12.5 volt class C applications in the 118 – 136 MHz frequency band and 28 volt FM ground station applications. Gold metalization and emitter ballast resistors provide long term product ruggedness and reliability.



ABSOLUTE MAXIMUM RATINGS (Tcase = 25°C)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector - Base Voltage	65	V	
V _{CEO}	Collector - Emitter Voltage	35	V	
V _{EBO}	Emitter - Base Voltage	4.0	V	
P _{DISS}	Device Dissipation	15	W	
T J	Junction Temperature	200	°C	
I c	Device Current	1.0	Α	
T _{STG}	Storage Temperature	-65 to +200	οС	

Thermal Data

R _{TH(J-C)}	Thermal Resistance Junction-case	11.7	°C/W

Rev A January 2009



MS1202

ELECTRICAL SPECIFICATIONS (Tcase = 25°C) STATIC

Symbol	Test Conditions		Value		Unit	
		Min.	Typ.	Max.	Offic	
BV _{ces}	I _C = 200 mA	$V_{BE} = 0 \text{ mA}$	65			V
BV_ceo	I _C = 200 mA	I _B =0	35			V
BV_{ebo}	$I_E = 5 \text{ mA}$	$I_C = 0 \text{ mA}$	4			V
I _{cbo}	V _{CB} = 30 V	I _E = 0 mA			1.0	mA
H _{FE}	V _{CE} = 5 V	I _C = 100 mA	5		150	

DYNAMIC

Symbol	Test Conditions		Value		Unit
		Min.	Тур.	Max.	Unit
P _{out}	f =175 MHz V _{CE} =28V	7.0			W
G _P	f =175 MHz V _{CE} =28V	8.4			dB
ης	f =175 MHz V _{CE} =28V	60			%
Cob	f =1 MHz V _{CE} =30V			15	pF





PACKAGE MECHANICAL DATA

