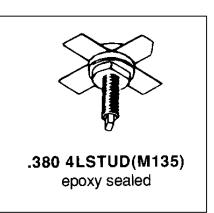


140 COMMERCE DRIVE MONTGOMERYVILLE, PA 18936-1013 PHONE: (215) 631-9840 FAX: (215) 631-9855

RF AND MICROWAVE TRANSISTORS HF - VHF COMMUNICATION APPLICATIONS

Features

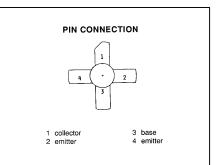
- FREQUENCY 160MHz
- VOLTAGE 13.6V
- COMMON EMITTER
- POWER OUT 40W
- POWER GAIN 9dB



MS1252

DESCRIPTION:

The MS1252 is especially designed for VHF large signal amplifier applications in industrial and commercial FM equipment operating up to 175 MHz. Ideally suited for marine radio applications.



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 _{EBO}	Emitter-Base Voltage	4	V
Ι _c	Device Current	5	Α
P _{DISS}	Power Dissipation	70	W
ΤJ	Junction Temperature	+ 200	°C
T _{STG}	Storage Temperature	– 65 to + 150	°C

THERMAL DATA

TH(j-c) Junction-Case Thermal Resistance	2.5	°C/W
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MS1252

ELECTRICAL SPECIFICATIONS (Tcase = 25°C)

STATIC

Symbol	Test Conditions		Value			
	Test conditions		Min.	Тур.	Max.	Units
BV _{CBO}	I _c = 5 mA	l _E = 0 mA	36			V
BV _{CES}	I _c = 50 mA	$V_{BE} = 0 V$	36			V
BV _{CEO}	I _c = 50 mA	I _B = 0 mA	18			V
BVEBO	I _E = 10 mA	$I_c = 0 mA$	4			V
I _{СВО}	V _{CB} = 15 V	I _E = 0 mA			5	mA
h _{FE}	$V_{CE} = 5 V$	I _C = 5 A	20		200	

DYNAMIC

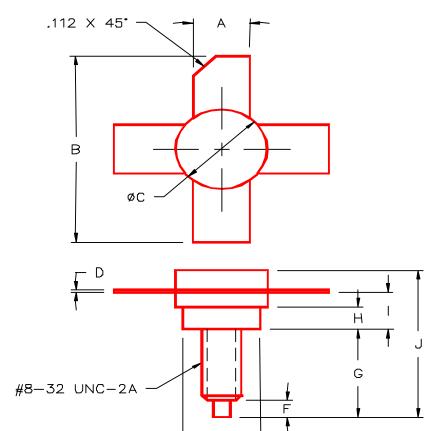
Symbol	Test Conditions		Value			Units	
Symbol		Test Conuit	10115	Min. Typ. Max.		Units	
Ρουτ	f = 160 MHz	P _{IN} = 5 W	V _{CE} = 50 V	40			W
G _{P *}	f = 160 MHz	P _{IN} = 5 W	V _{CE} = 50 V	9			dB
Ç c ∗	f = 160 MHz	P _{IN} = 5 W	V _{CE} = 50 V	55			%
Сов	f = 1 MHz		V _{CB} = 13.6 V			135	PF



MS1252

PACKAGE MECHANICAL DATA

PACKAGE STYLE M135



	MINIMUM INCHES/MM	MAXIMUM INCHES/MM		MINIMUM INCHES/MM	MAX/MUM INCHES/MM
Α	.220/5,59	.230/5,84		.155/3,94	.175/4,45
В	.980/24,89		J		.750/19,05
С	.370/9,40	.385/9,78			
D	.004/0,10	.007/0,18			
E	.320/8,13	.330/8,38			
F	.100/2,54	.130/3,30			
G	.450/11,43	.490/12,45			
Н	.090/2,29	.100/2,54			

E