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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!

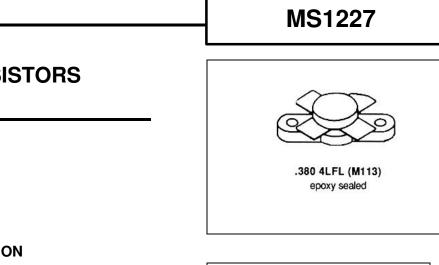


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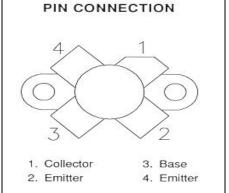
RF & MICROWAVE TRANSISTORS HF SSB APPLICATIONS

Features

- 30 MHz
- 12.5 VOLTS
- GOLD METALIZATION
- P_{OUT} = 20 W MINIMUM
- G_P = 15 dB
- COMMON EMITTER CONFIGURATION

DESCRIPTION:

The MS1227 is a 12.5V epitaxial NPN planar transistor designed primarily for SSB communications. This device utilizes emitter ballasting for improved ruggedness and reliability.



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	36	V
V _{CEO}	Collector-Emitter Voltage	18	V
V _{EBO}	Emitter-Base Voltage	4.0	V
Ι _c	Device Current	4.5	Α
PDISS	Power Dissipation	80	W
TJ	Junction Temperature	+200	°C
T _{STG}	Storage Temperature	-65 to +150	°C

Thermal Data

R _{TH(J-C)} Junction-case Thermal Resistance	2.2	°C/W
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MS1227

ELECTRICAL SPECIFICATIONS (Tcase = 25° C)

STATIC

Symbol	Test Conditions			Value		
			Min.	Typ.	Max.	Unit
BVcbo	I _c = 50mA	I _E = 0mA	36			V
Bvces	I _c = 50mA	$V_{BE} = 0V$	36			V
Bvceo	I _c = 50mA	I _B = 0mA	18			V
Bvebo	I _E = 5mA	I _c = 0mA	4.0			V
lces	V _{св} = 15V	I _E = 0mA			5	mA
H _{FE}	$V_{CE} = 5V$	I _C = 1A	10		200	

DYNAMIC

Symbol	Test Conditions		Value				
				Min.	Typ.	Max.	Unit
Pout	f = 30MHz	V _{cc} = 12.5V	I _{CQ} = 25mA	20			w
G _P	f = 30MHz	V _{CC} = 12.5V	I _{CQ} = 25mA	15			dB
IMD	f = 30MHz	V _{CC} = 12.5V	I _{CQ} = 25mA			-30	dB
Cob	f = 1 MHz	$V_{CB} = 30V$				135	pf

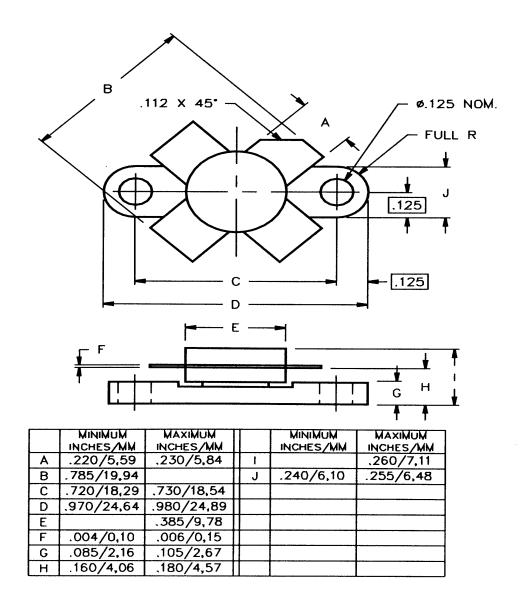
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MS1227

PACKAGE MECHANICAL DATA



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