

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

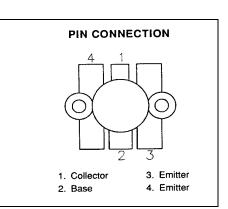
RF & MICROWAVE TRANSISTORS TV/LINEAR APPLICATIONS

Features

- 170 230 MHz
- 28 VOLTS
- **P**_{OUT} = 14 WATTS
- $G_P = 14$ dB GAIN MINIMUM
- GOLD METALLIZATION
- INTERNAL INPUT MATCHING
- COMMON EMITTER CONFIGURATION

DESCRIPTION:

The MS1277 is a gold metallized epitaxial silicon NPN planar transistor using diffused emitter ballast resistors for high linearity Class A operation in VHF and Band III television transmitters and transposers.

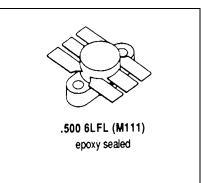


ABSOLUTE MAXIMUM RATINGS (Tcase = 25°C)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	35	V	
V _{EBO}	Emitter-Base Voltage	4.0	V	
Ι _c	Device Current	10	Α	
P _{DISS}	Power Dissipation	140	W	
TJ	Junction Temperature	+200	°C	
T _{STG}	Storage Temperature	-65 to +150	°C	

Thermal Data

R _{TH(J-C)}	Thermal Resistance Junction-case	1.5	°C/W
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MS1277



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ELECTRICAL SPECIFICATIONS (Tcase = 25°C) STATIC

Symbol	Test Conditions			Value		
			Min.	Тур.	Max.	Unit
BV _{CER}	I _c = 50 mA	R _{BE} =10 Ω	60			v
BV _{CEO}	I _c = 50 mA	$I_{B} = 0 \text{ mA}$	35			v
BV _{EBO}	I _E = 10 mA	I _c = 0 mA	4.0			v
I _{CES}	$V_{CE} = 50 V$	l _E = 0 mA			5	mA
HFE	$V_{CE} = 5 V$	$I_{C} = 1 A$	10		100	

DYNAMIC

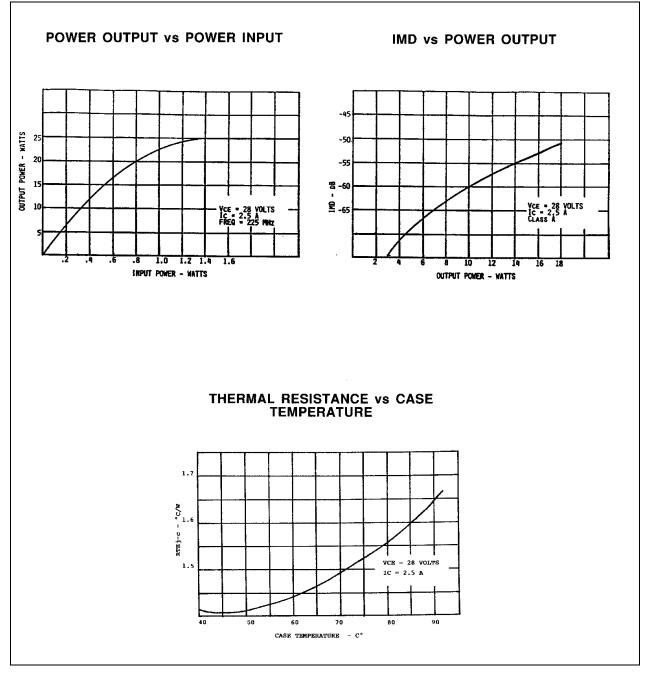
Symbol	Test Conditions			Value			
			Min.	Тур.	Max.	Unit	
Ρουτ	f = 225 MHz	V _{CE} = 28 W	I _C = 2.5 A	14			w
G _P	f = 225 MHz	V _{CE} = 28 W	I _C = 2.5 A	14			dB
IMD	f = 225 MHz	V _{CE} = 28 W	I _C = 2.5 A			-55	dBc
Сов	f = 1 MHz	$V_{CB} = 28 V$				80	pf

Note: * dB compression



MS1277

TYPICAL PERFORMANCE

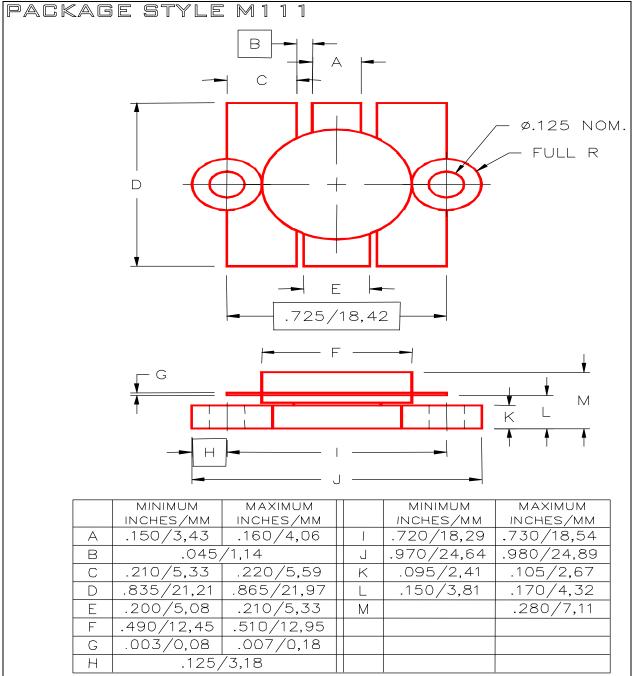


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PACKAGE MECHANICAL DATA



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