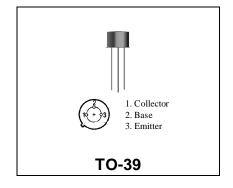


SD1127

RF & MICROWAVE TRANSISTORS VHF FM MOBILE APPLICATIONS

Features

- 175 MHz
- 12.5 VOLTS
- P_{OUT} = 4.0 W MINIMUM
- $G_P = 12.0 \text{ dB}$
- GROUNDED EMITTER



DESCRIPTION:

The SD1127 is a epitaxial silicon NPN transistor designed primarily for VHF mobile communications. The chip of this transistor is mounted on a beryllia pill to isolate the collector lead and ground the emitter lead for high gain performance

ABSOLUTE MAXIMUM RATINGS (Tcase = 25°C)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	36	V
V _{CEO}	Collector-Emitter Voltage	18	٧
V _{CES}	Collector-Emitter Voltage	36	٧
V EBO	Emitter – Base Voltage	4.0	٧
I c	Collector Current	.64	Α
Ptot	Total Power Dissipation	8.0	W
T _{STG}	Storage Temperature	-65 + 200	°C
TJ	Junction Temperature	+200	°C

Thermal Data

R _{TH(J-C)} Junction-case Thermal Resistance	21.9	°C/W
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SD1127

ELECTRICAL SPECIFICATIONS (Tcase = 25°C)

STATIC

Symbol		Test Conditions		Value		
			Min.	Typ.	Max.	Unit
BV _{CES}	$I_C = 5 \text{ mA}$	V _{BE} = 0	36			V
BV _{CEO}	I _C = 10 mA	I _B = 0	18			V
BV _{EBO}	I _E = 1 mA	I _C = 0	4.0			V
I _{CBO}	$V_{CB} = 15.0 \text{ V}$	I _E = 0			.25	mA
H _{FE}	$V_{CE} = 5.0 \text{ V}$	I _C = 50 mA	10		100	

DYNAMIC

Symbol	Test Conditions			Value		
			Mir	. Typ.	Max.	Unit
P _{OUT}	f =175 MHz	V _{CE} =12.5 V	4.0			W
G _{PE}	f =175 MHz	V _{CE} =12.5 V	12.0)		dB
Cob	f =1 MHz	V _{CE} =15.0 V			20.0	pf

IMPEDANCE DATA

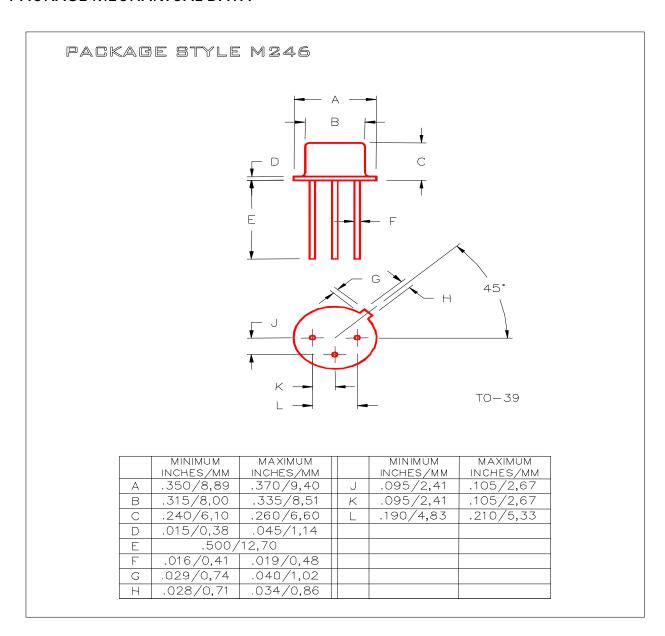
FREQ	$\mathbf{Z}_{IN}(\Omega)$	$\mathbf{Z}_{\mathtt{CL}}(\Omega)$
136 MHz	3.0 – j3.8	12.8 – j11
155 MHz	4.0 – j2.0	11 – j14.8
175 MHz	4.3 – j5.8	13 – j20

 $P_{IN} = 0.2W$ $V_{CC} = 12.6V$



SD1127

PACKAGE MECHANICAL DATA



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H6327 BFP 720F H6327 BFP 740F H6327 BFR 340L3 E6327 BFR 360F H6765 BFR 740L3RH E6327 PH2729-25M MRF10031
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