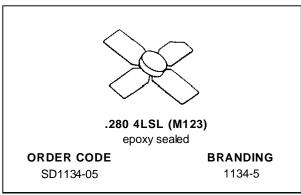
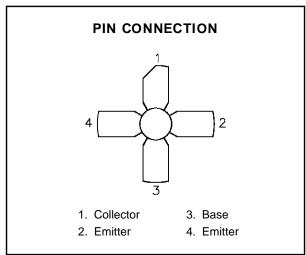


SD1134-05

RF & MICROWAVE TRANSISTORS VHF PORTABLE/MOBILE APPLICATIONS

- 175 MHz
- 7.5 VOLTS
- COMMON EMITTER
- Pout = 0.5 W MIN. WITH 7.0 dB GAIN





DESCRIPTION

The SD1134-05 is a 7.5 V epitaxial silicon NPN planar transistor designed primarily for VHF communications. It with stands very high VSWR under rated operating conditions.

ABSOLUTE MAXIMUM RATINGS $(T_{case} = 25^{\circ}C)$

Symbol	Parameter	Value		
V _{CBO}	Collector-Base Voltage	36	V	
V _{CER}	Collector-Emitter Voltage	16	V	
V _{CES}	Collector-Emitter Voltage	36		
V _{EBO}	Emitter-Base Voltage	4.0	V	
Ic	Device Current	0.75	А	
P _{DISS}	Power Dissipation 5.0		W	
TJ	Junction Temperature	+200	°C	
T _{STG}	Storage Temperature	– 65 to +150	°C	

THERMAL DATA

R _{TH(j-c)} Junction-Case Thermal Resistance	35	°C/W
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SD1134-05

ELECTRICAL SPECIFICATIONS $(T_{case} = 25^{\circ}C)$

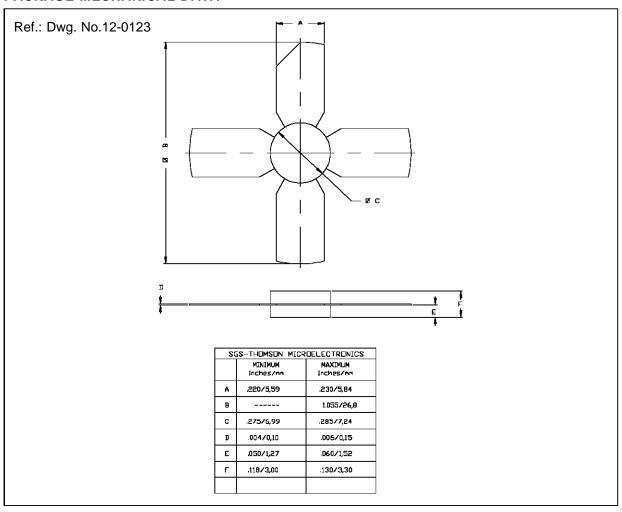
STATIC

Symbol	Test Conditions		Value			Unit	
		Mii	ո.	Тур.	Max.		
BVces	I _C = 5mA	$V_{BE} = 0V$	36	;	_	_	V
BVceo	I _C = 25mA	$I_B = 0mA$	16	;	_	_	V
BV _{EBO}	I _E = 1mA	$I_C = 0mA$	4.0)	_	_	V
I _{CER}	V _{CE} = 10V	$R_{BE} = 80\Omega$	_	-	_	0.5	mA
Ісво	V _{CB} = 15V	$I_E = 0mA$	_	-	_	1.0	mA
hFE	V _{CE} = 5V	$I_C = 100mA$	40)	_	200	_

DYNAMIC

Symbol	Test Conditions	Value			Unit		
		Min.	Тур.	Max.			
Pout	f = 150 MHz	$V_{CC} = 7.5 \text{ V}$		1.4	_	_	W
G _P	f = 150 MHz	$V_{CC} = 7.5 \text{ V}$		11.5	_	_	dB
Сов	f = 1 MHz	V _{CB} = 7.5 V		_	6.0	_	pF

PACKAGE MECHANICAL DATA



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