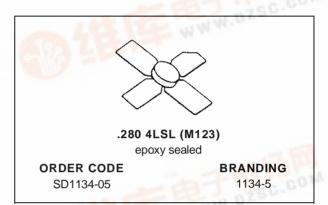
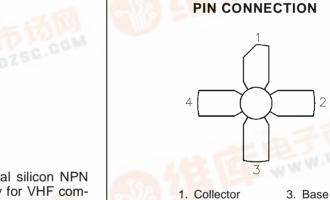


SD1134-05

RF & MICROWAVE TRANSISTORS VHF PORTABLE/MOBILE APPLICATIONS

- 175 MHz
- 7.5 VOLTS
- **COMMON EMITTER**
- P_{OUT} = 0.5 W MIN. WITH 7.0 dB GAIN





2. Emitter

4. Emitter

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°C)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	36	V	
V _{CER}	Collector-Emitter Voltage	16	V	
V _{CES}	Collector-Emitter Voltage	36	V	
V _{EBO}	Emitter-Base Voltage	4.0		
Ic	Device Current	0.75	А	
Poiss	Power Dissipation	5.0	W	
TJ	Junction Temperature +200		°C	
TSTG	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°C)

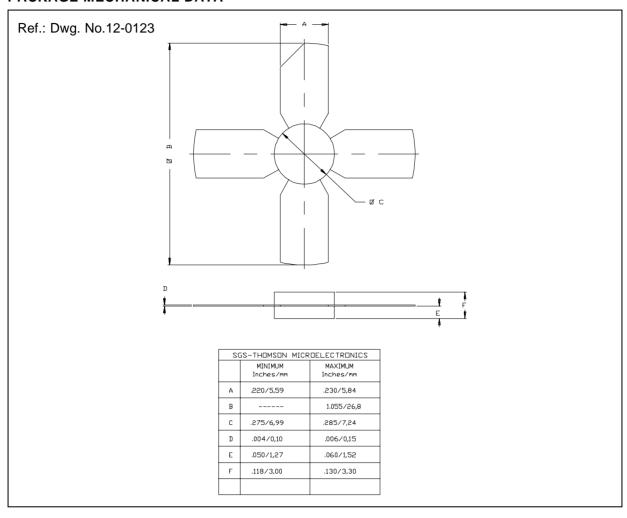
STATIC

Symbol	Test Conditions	Value			Unit		
		Min.	Тур.	Max.	Oiiit		
BV _{CES}	$I_C = 5mA$	$V_{BE} = 0V$		36			V
BV _{CEO}	$I_C = 25mA$	$I_B = 0mA$		16	_	_	V
BV _{EBO}	I _E = 1mA	$I_C = 0mA$		4.0	_	_	V
ICER	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.	Onit		
Pout	f = 150 MHz	$V_{CC} = 7.5 V$		1.4		_	W
G _P	f = 150 MHz	Vcc = 7.5 V		11.5	_		dB
Сов	f = 1 MHz	V _{CB} = 7.5 V		_	6.0	_	pF

PACKAGE MECHANICAL DATA



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