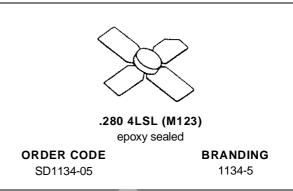


SD1134-05

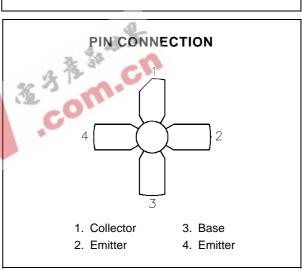
RF & MICROWAVE TRANSISTORS VHF PORTABLE/MOBILE APPLICATIONS

- 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	Unit	
V _{CBO}	Collector-Base Voltage	36	V	
V _{CER}	Collector-Emitter Voltage	16	V	
V _{CES}	/ _{CES} Collector-Emitter Voltage		V	
V _{EBO}	Emitter-Base Voltage	4.0	V	
Ic	Device Current	0.75	А	
P _{DISS}	P _{DISS} Power Dissipation		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

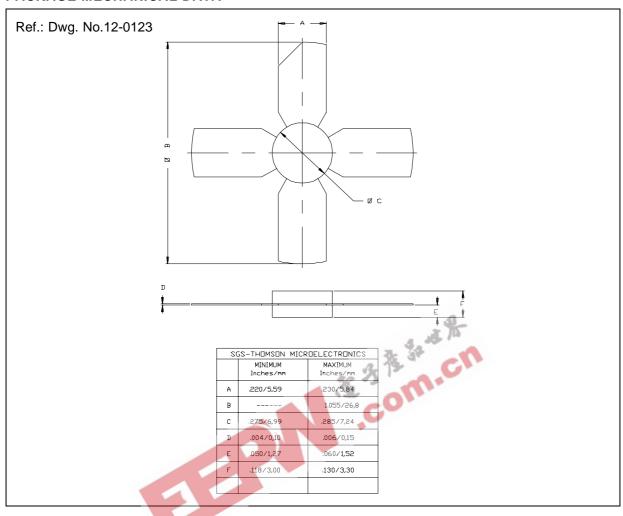
Symbol	Test Conditions	Value			Unit		
		Min.	Тур.	Max.	Oiiit		
BV _{CES}	$I_C = 5mA$	$V_{BE} = 0V$		36			V
BV _{CEO}	$I_C = 25mA$	$I_B = 0mA$		16	_	_	V
BV _{EBO}	I _E = 1mA	$I_C = 0mA$		4.0	_	_	V
I _{CER}	$V_{CE} = 10V$	$R_{BE} = 80\Omega$		_		0.5	mA
Ісво	V _{CB} = 15V	I _E = 0mA		_	_	1.0	mA
hfE	V _{CE} = 5V	Ic = 100mA		40	_	200	_

DYNAMIC

Symbol	Test Conditions	Value			Unit		
		Min.	Тур.	Max.	Unit		
Pout	f = 150 MHz	$V_{CC} = 7.5 V$		1.4	_	_	W
G _P	f = 150 MHz	$V_{CC} = 7.5 V$	4,4	11.5	_	_	dB
Сов	f = 1 MHz	$V_{CB} = 7.5 V$	八九	4	6.0	_	pF
			,com				



PACKAGE MECHANICAL DATA



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