

isc Silicon NPN RF Transistor

2SC3124

DESCRIPTION

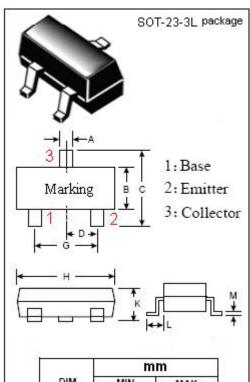
- High Gain Bandwidth Product f_T = 1100 MHz TYP.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Designed for TV tuner ,VHF oscillator applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	15	V
V_{EBO}	Emitter-Base Voltage	3	V
Ic	Collector Current-Continuous	50	mA
lΒ	Base Current-Continuous	25	mA
Pc	Collector Power Dissipation @Tc=25°C	0.15	W
TJ	Junction Temperature	125	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~125	$^{\circ}$



	mm		
DIM	MIN	MAX	
Α	0.30	0.40	
В	1.50	1. 70	
С	2.65	2.95	
D	0.	95	
G	1.80	2.00	
Н	2. 82	3. 02	
K	1.05	1. 25	
L	0.	70	
М	0.10	0. 20	



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	15			V
I _{CBO}	Collector Cutoff Current	V _{CB} = 15V; I _E = 0			0.1	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			1.0	μ А
h _{FE}	DC Current Gain	I _C = 8mA ; V _{CE} = 3V	40		200	
f _T	Current-Gain—Bandwidth Product	I _C = 8mA ; V _{CE} = 10V	650	1100		MHz
Сов	Reverse Transfer Capacitance	I _E = 0 ; V _{CB} = 10V; f= 1.0MHz		0.9	1.3	pF
r _{bb} , • C _C	Base Time Constant	V _{CB} = 10V,I _C = 8 mA, f= 30 MHz		7	12	ps

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