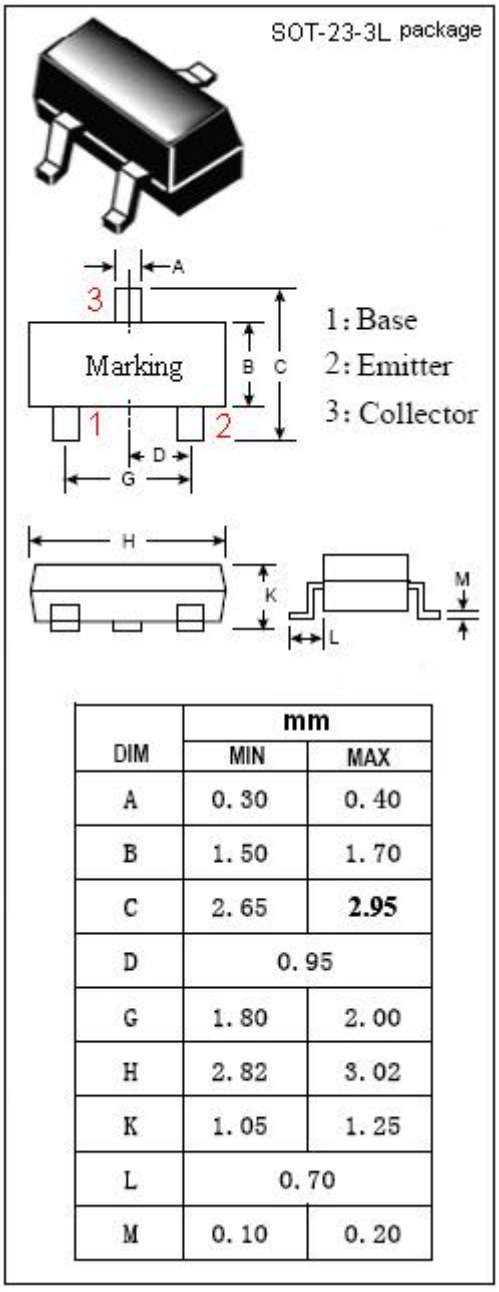
isc Silicon NPN RF Transistor 2SC3124

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.



DIM	mm MIN	mm MAX
A	0.30	0.40
B	1.50	1.70
C	2.65	2.95
D	0.95	
G	1.80	2.00
H	2.82	3.02
K	1.05	1.25
L	0.70	
M	0.10	0.20

ABSOLUTE MAXIMUM RATINGS(T_a=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
I_C	Collector Current-Continuous	50	mA
I_B	Base Current-Continuous	25	mA
P_C	Collector Power Dissipation @T_C=25℃	0.15	W
T_J	Junction Temperature	125	℃
T_{stg}	Storage Temperature Range	-55~125	℃

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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	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 3V; I_C= 0			1.0	μA
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
C_{OB}	Reverse Transfer Capacitance	I_E= 0 ; V_{CB}= 10V; f= 1.0MHz		0.9	1.3	pF
$r_{bb'} \cdot C_C$	Base Time Constant	V_{CB}= 10V,I_C= 8 mA, f= 30 MHz		7	12	ps