

isc Silicon NPN RF Transistor

DESCRIPTION

- High Current-Gain Bandwidth Product f_T = 1500MHz TYP. @V_{CE} = 10 V, I_C = 8 mA
- Low Noise
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

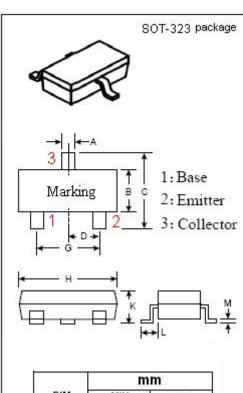
APPLICATIONS



- TV tuner, UHF oscillator applications
- TV tuner, UHF converter applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	15	V
V _{EBO}	Emitter-Base Voltage	3	V
lc	Collector Current-Continuous	50	mA
I _B	Base Current-Continuous	25	mA
Pc	Collector Power Dissipation @T _C =25°C	0.1	W
TJ	Junction Temperature	125	°C
T _{stg}	Storage Temperature Range	-55~125	$^{\circ}$



	mm		
DIM	MIN	MAX	
Α	0.30	0. 40	
В	1. 15	1. 35	
С	2. 00	2. 40	
D	0.	65	
Н	1.80	2.20	
K	0.80	1.00	
М	0. 10	0. 25	



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2SC4246

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
Ісво	Collector Cutoff Current	V _{CB} = 15V; I _E = 0			0.1	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			1.0	μА
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	15			V
h _{FE}	DC Current Gain	I _C = 8mA ; V _{CE} = 3V	60		320	
f⊤	Current-Gain—Bandwidth Product	I _C = 8mA;V _{CE} = 10V; f= 200MHz	1100	1500		MHz
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V; f= 1MHz		0.9	1.3	pF
r _{bb'} • C _C	Base Time Constant	I _C = 8mA ; V _{CB} = 10V;f= 30MHz		7	12	ps

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