

isc Silicon NPN RF Transistor

2SC4265

DESCRIPTION

- Low Noise
- High Gain
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

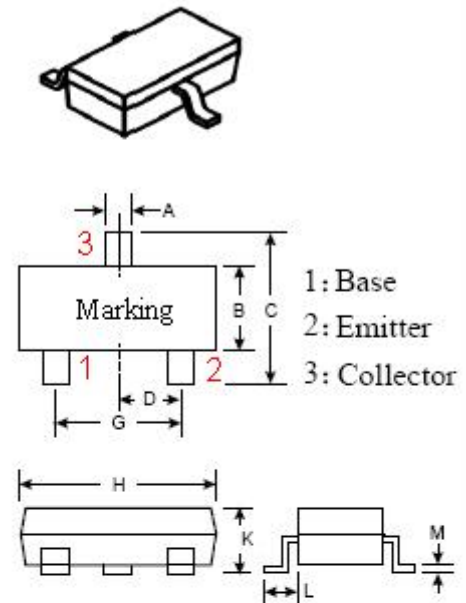
APPLICATIONS

- Designed for use in VHF RF amplifier, local oscillator, mixer.

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	30	V
V_{CEO}	Collector-Emitter Voltage	20	V
V_{EBO}	Emitter-Base Voltage	3.0	V
I_c	Collector Current-Continuous	50	mA
P_c	Collector Power Dissipation @ $T_c=25^{\circ}\text{C}$	0.1	W
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$

SOT-323 package



DIM	mm	
	MIN	MAX
A	0.30	0.40
B	1.15	1.35
C	2.00	2.40
D	0.65	
H	1.80	2.20
K	0.80	1.00
M	0.10	0.25

isc Silicon NPN RF Transistor**2SC4265****ELECTRICAL CHARACTERISTICS****T_C=25℃ unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 10 μ A ; I _E = 0	30			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; R _{BE} = ∞	20			V
I _{CBO}	Collector Cutoff Current	V _{CB} = 15V; I _E = 0			0.5	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 3V; I _C = 0			10	μ A
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 20mA ; I _B = 4mA			1.0	V
h _{FE}	DC Current Gain	I _C = 10mA ; V _{CE} = 10V	40			
f _T	Current-Gain—Bandwidth Product	I _C = 10mA ; V _{CE} = 10V	600			MHz
C _{OB}	Output Capacitance	I _E = 0 ; V _{CB} = 10V; f= 1.0MHz			1.5	pF

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