

isc Silicon NPN Power Transistor

2SC4116

DESCRIPTION

- With SOT-323 packaging
- · High collector-base voltage
- · High power dissipation
- Low saturation voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

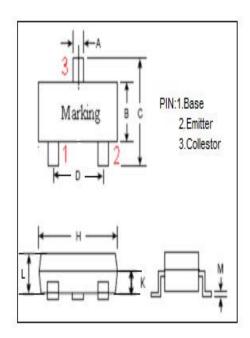
APPLICATIONS

· Power amplifier applications



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	0.15	А
P _C	Collector Power Dissipation @ T_C =25 $^{\circ}$ C	0.1	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$



DIM	MIN(mm)	MAX (mm)
A	0.20	0.40
В	1.24	1.32
С	2.06	2. 21
D	1.26	1.34
Н	2.08	2.16
K	0.51	0.56
L	0.80	0.90
H	0.10	0. 25



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ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = 0.1mA ; I _E = 0	60			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA ; I _B = 0	50			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = 0.1mA ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.1A; I _B = 0.01A			0.25	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 0.1A; I _B = 0.01A			0.25	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 60V ; I _E = 0			0.1	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	μА
h _{FE}	DC Current Gain	I _C = 2mA ; V _{CE} = 6V	70		700	

Classification of hee

Rank	0	Y	GR	BL
Range	70-140	120-240	200-400	350-700

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