

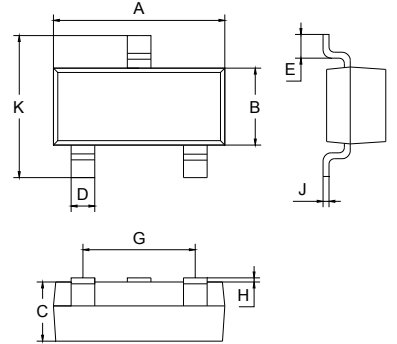
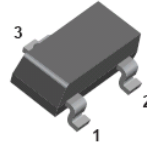


FEATURES

- Small reverse transfer capacitance:
Cre=0.7pF(Typ.)
- Low noise Figure:NF=2.5dB(Typ.)
f=100MHz

APPLICATIONS

- High frequency amplifier applications
- FM,RF,MIX,IF Amplifier applications



ORDERING INFORMATION

Type No.	Marking	Package Code
2SC2714	QR/QO/QY	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	4	V
I _C	Collector Current -Continuous	20	mA
I _B	Base current	4	mA
P _C	Collector Dissipation	100	mW
T _j , T _{stg}	Junction and Storage Temperature	-55 to+125	°C

SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60
All Dimensions in mm		

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

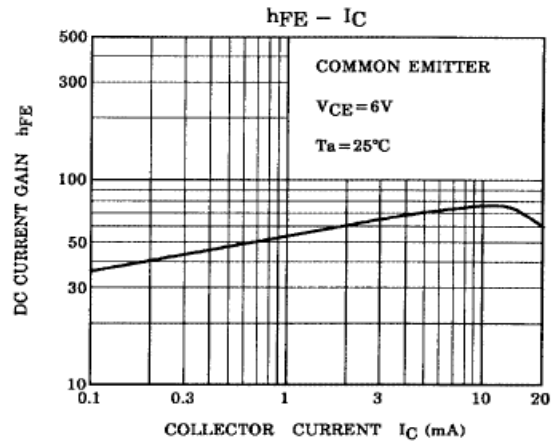
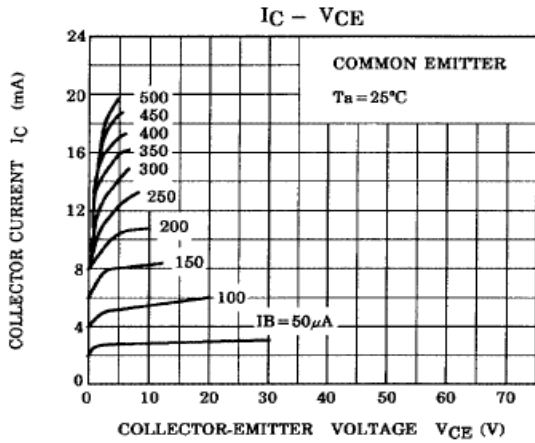
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	4			V
Collector cut-off current	I _{CBO}	V _{CB} =18V, I _E =0			0.5	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V, I _C =0			0.5	μA
DC current gain	h _{FE}	V _{CE} =6V, I _C =1mA	40		200	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =10mA, I _B =1mA			0.3	V
Transition frequency	f _T	V _{CE} =6V, I _C =1mA		550		MHz
Output capacitance	C _{ob}	V _{CB} =6V, I _E =0, f=1MHz		0.7		pF
Noise Figure	NF	V _{CE} =6V, I _E =-1mA, f=100MHz		2.5	5	dB

CLASSIFICATION OF h_{FE(1)}

Rank	R	O	Y
Range	40-80	70-140	100-200
Marking	QR	QO	QY



TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



Package	Reel	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)
SOT-23	3000pcs	7inch	45,000pcs	203×203×195	180,000pcs	438×438×220