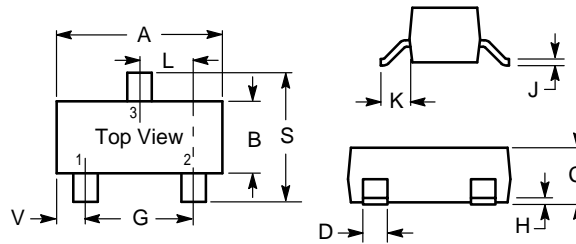
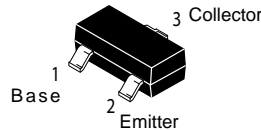


A suffix of "-C" specifies halogen & lead-free

FEATURES

- Power Dissipation
P_{CM}: 200 mW (T_{amb}= 25°C)
- RoHS Compliant Product



SOT-23		
Dim	Min	Max
A	2.800	3.040
B	1.200	1.400
C	0.890	1.110
D	0.370	0.500
G	1.780	2.040
H	0.013	0.100
J	0.085	0.177
K	0.450	0.600
L	0.890	1.020
S	2.100	2.500
V	0.450	0.600
All Dimension in mm		

MAXIMUM RATINGS* T_A=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	32	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	500	mA
P _C	Collector Dissipation	200	mW
T _J , T _{stg}	Junction and Storage Temperature	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=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	32			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100µA, I _C =0	5			V
Collector cut-off current	I _{CB0}	V _{CB} =20V, I _E =0			1	µA
Emitter cut-off current	I _{EBO}	V _{EB} =4V, I _C =0			1	µA
DC current gain	h _{FE}	V _{CE} =3V, I _C =100mA	82		390	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500mA, I _B =50mA			0.4	V
Transition frequency	f _T	V _{CE} =5V, I _C =20mA, f=100MHz		250		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		6.0		pF

CLASSIFICATION OF h_{FE}

Rank	P	Q	R
Range	82-180	120-270	180-390
Marking	CP	CQ	CR

Typical characteristics

2SC2411

Electrical characteristic curves

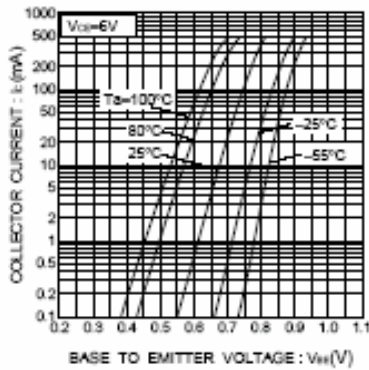


Fig.1 Grounded emitter propagation characteristics

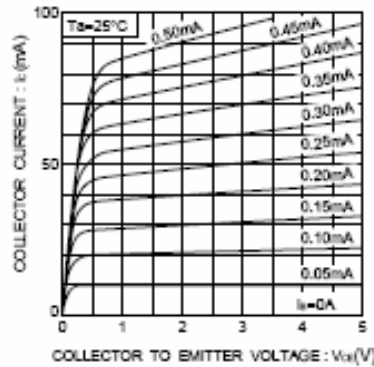


Fig.2 Grounded emitter output characteristics(I)

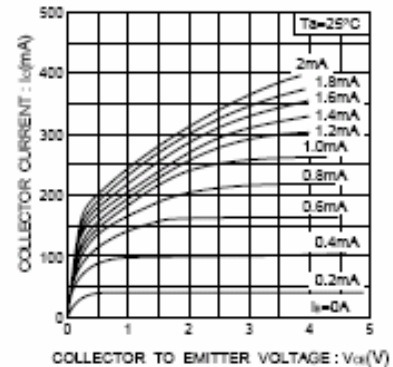


Fig.3 Grounded emitter output characteristics(II)

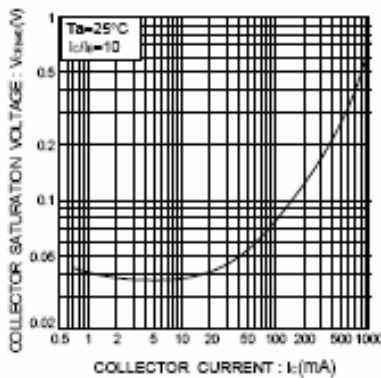


Fig.4 Collector-emitter saturation voltage vs. collector current

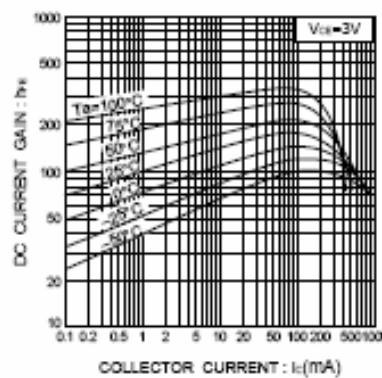


Fig.5 DC current gain vs. collector current

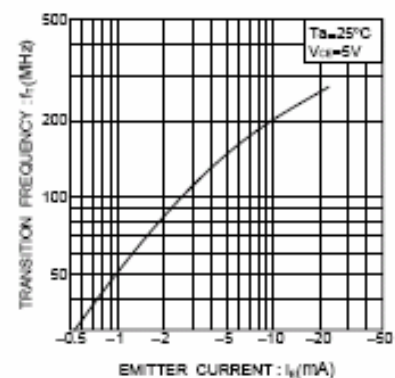


Fig.6 Gain bandwidth product vs. emitter current

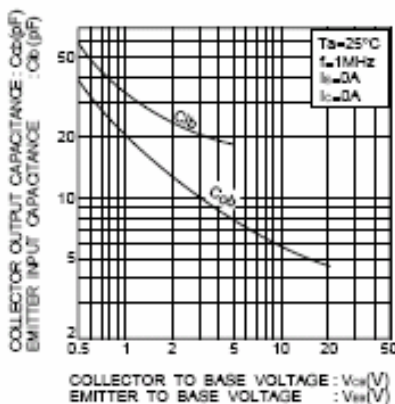


Fig.7 Collector output capacitance vs. collector-base voltage
Emitter input capacitance vs. emitter-base voltage