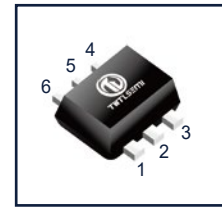
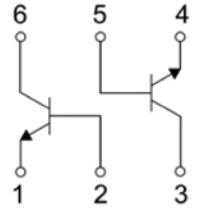


Features

- Two 2SC2412K chips in a SOT-563 package
- Mounting possible with SOT-563 automatic mounting machines
- Transistor elements are independent, eliminating interference
- Mounting cost and area can be cut in half



SOT-563



Equivalent Circuit

MAXIMUM RATINGS (TA=25℃ unless otherwise specified)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	7	V
I _C	Collector Current	150	mA
P _C	Collector Power Dissipation	150	mW
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

Electrical Characteristics (TA=25℃ unless otherwise specified)

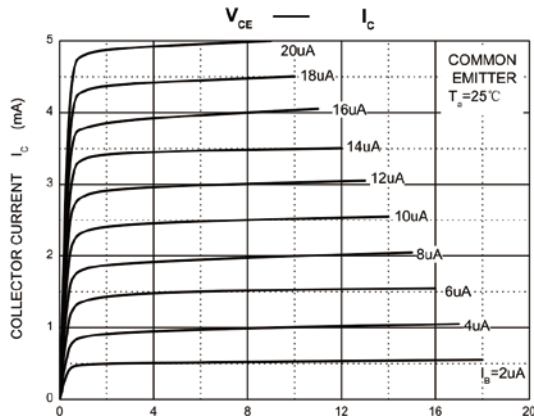
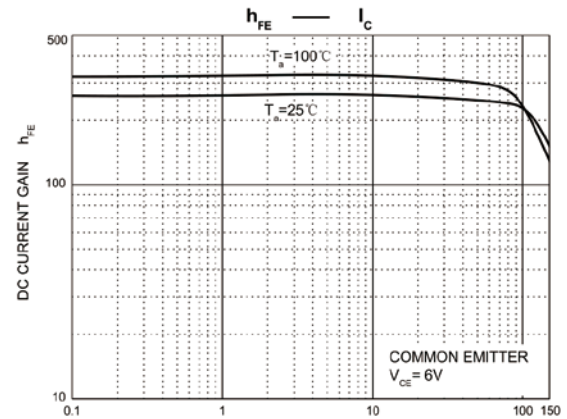
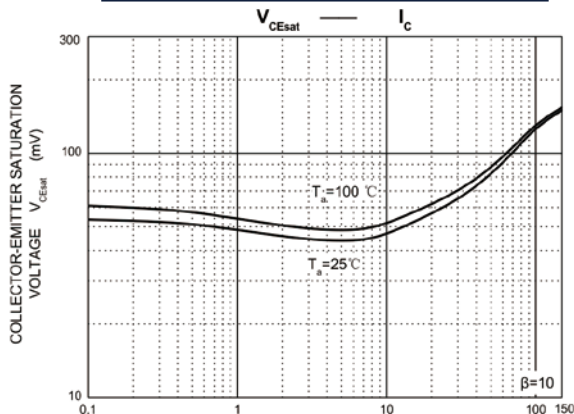
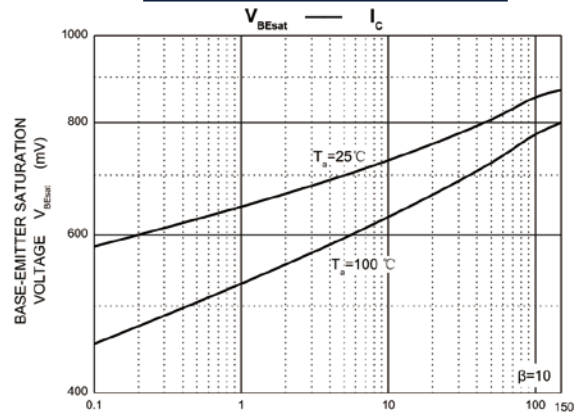
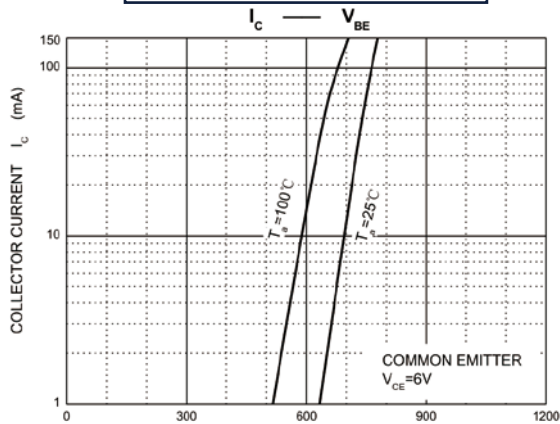
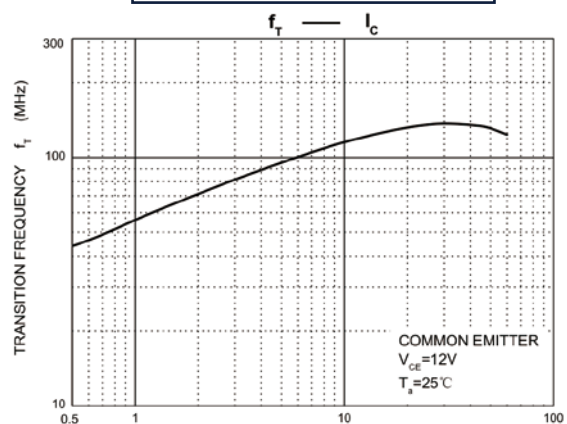
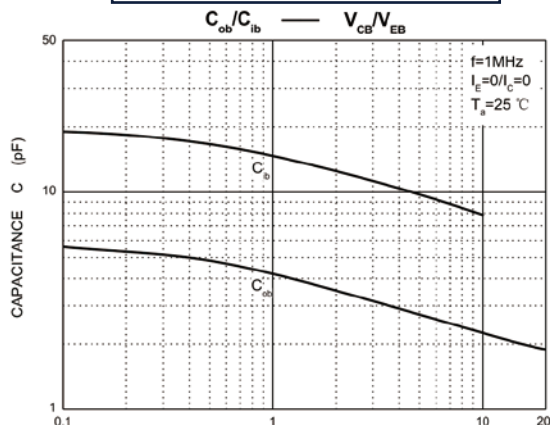
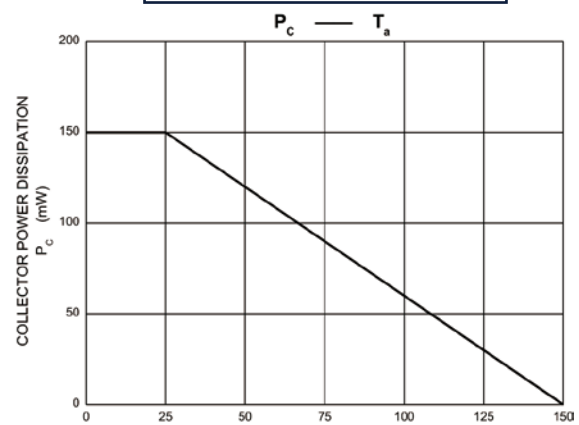
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =50μA, I _E =0	60			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =1mA, I _B =0	50			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =50μA, I _C =0	7			V
I _{CBO}	Collector cut-off current	V _{CB} =60V, I _E =0			0.1	μA
I _{EBO}	Emitter cut-off current	V _{EB} =7V, I _E =0			0.1	μA
h _{FE}	DC current gain	V _{CE} =6V, I _C =1mA	120		560	
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =50mA, I _B =5mA			0.4	V
f _T	Transition frequency	V _{CE} =12V, I _C =2mA, f=100MHz		180		MHz
C _{ob}	Collector output capacitance	V _{CB} =12V, I _E =0, f=1MHz		2.0	3.5	pF

Ordering information

Product ID	Pack	Naming rule	Marking	hFE(1)	Qty(PCS)
EMX1	SOT-563	EMX1 ↓ 产品名称 product name	X1	120-560	3000

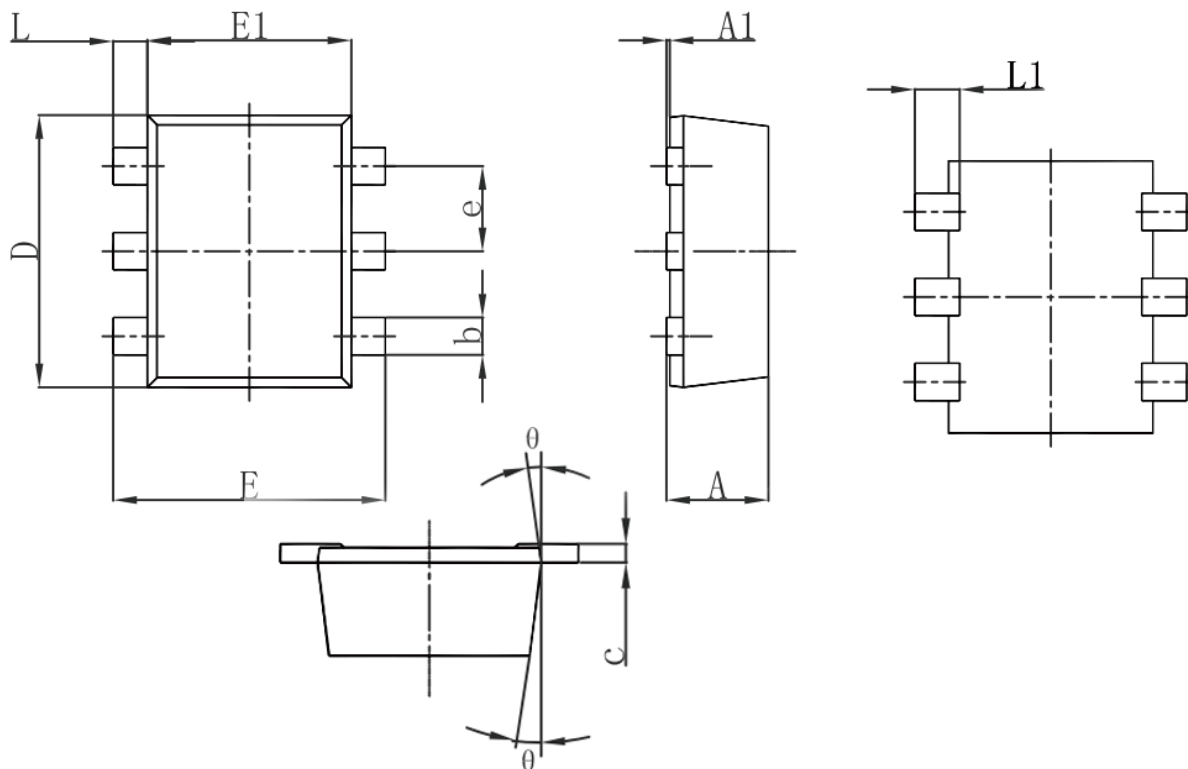


Typical Characteristics

COLLECTOR-EMITTER VOLTAGE $V_{CE}(V)$ COLLECTOR CURRENT $I_C(mA)$ COLLECTOR CURRENT $I_C(mA)$ COLLECTOR CURRENT $I_C(mA)$ BASE-EMITTER VOLTAGE $V_{BE}(mV)$ COLLECTOR CURRENT $I_C(mA)$ REVERSE VOLTAGE $V_R(V)$ AMBIENT TEMPERATURE $T_a(^{\circ}\text{C})$



SOT-563 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.525	0.600	0.021	0.024
A1	0.000	0.050	0.000	0.002
e	0.450	0.550	0.018	0.022
c	0.090	0.160	0.004	0.06
D	1.500	1.700	0.059	0.067
b	0.170	0.270	0.007	0.011
E1	1.100	1.300	0.043	0.051
E	1.500	1.700	0.059	0.067
L	0.100	0.300	0.004	0.012
L1	0.200	0.400	0.008	0.016
θ	10° REF.		10° REF.	