



# FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

## ST 2SC2120

### NPN Silicon Epitaxial Planar Transistor

for switching and AF amplifier applications.

The transistor is subdivided into two groups, O and Y according to its DC current gain.

On special request, these transistors can be manufactured in different pin configurations.

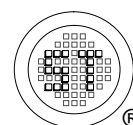


1. Emitter 2. Collector 3. Base

TO-92 Plastic Package  
Weight approx. 0.19g

### Absolute Maximum Ratings ( $T_a = 25^{\circ}\text{C}$ )

	Symbol	Value	Unit
Collector Base Voltage	$V_{\text{CBO}}$	35	V
Collector Emitter Voltage	$V_{\text{CEO}}$	30	V
Emitter Base Voltage	$V_{\text{EBO}}$	5	V
Collector Current	$I_{\text{C}}$	800	mA
Base Current	$I_{\text{B}}$	160	mA
Power Dissipation	$P_{\text{tot}}$	600	mW
Junction Temperature	$T_{\text{j}}$	150	$^{\circ}\text{C}$
Storage Temperature Range	$T_{\text{s}}$	-55 to +150	$^{\circ}\text{C}$



Dated : 07/12/2002



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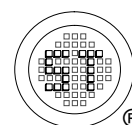
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### Characteristics at $T_{amb}=25^{\circ}C$

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=1V, I_C=100mA$					
Current Gain Group O	$h_{FE}$	100	-	200	-
Y	$h_{FE}$	160	-	320	-
at $V_{CE}=1V, I_C=700mA$	$h_{FE}$	35	-	-	-
Collector Cutoff Current at $V_{CB}=35V$	$I_{CBO}$	-	-	0.1	$\mu A$
Emitter Cutoff Current at $V_{EB}=5V$	$I_{EBO}$	-	-	0.1	$\mu A$
Collector Emitter Saturation Voltage at $I_C=500mA, I_B=20mA$	$V_{CE(sat)}$	-	-	0.5	V
Transition Frequency at $V_{CE}=5V, I_C=10mA$	$f_T$	-	120	-	MHz
Base Emitter Voltage at $I_C=10mA, V_{CE}=1V$	$V_{BE}$	0.5	-	0.8	V
Collector Output Capacitance at $V_{CB}=10V, f=1MHz$	$C_{OB}$	-	13	-	pF
Collector Emitter Breakdown Voltage at $I_C=10mA$	$V_{CEO}$	30	-	-	V



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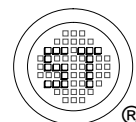
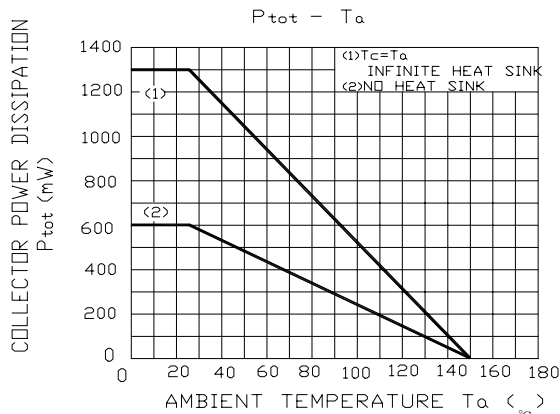
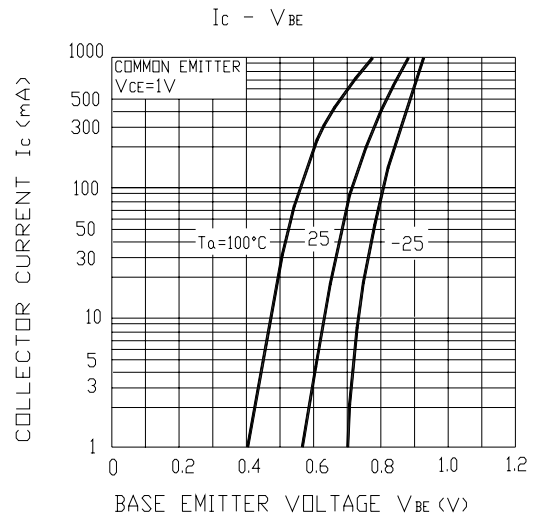
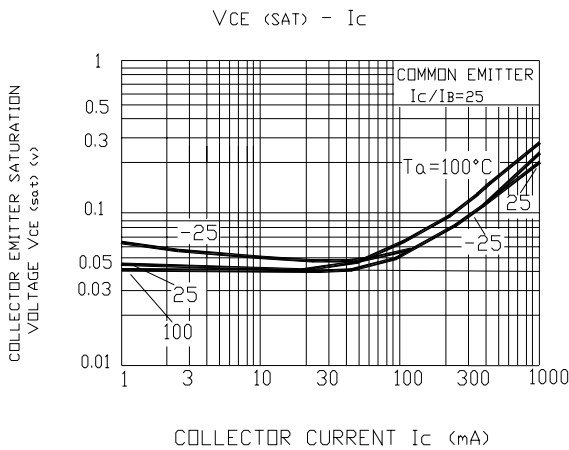
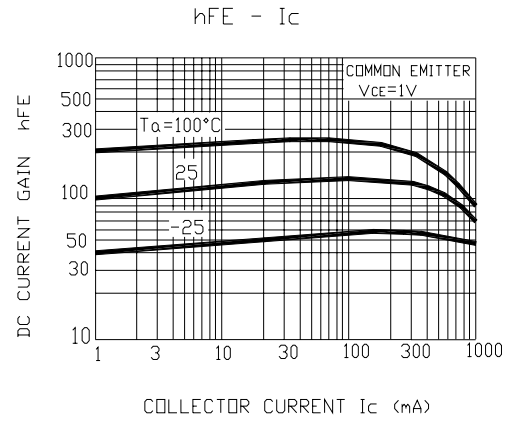
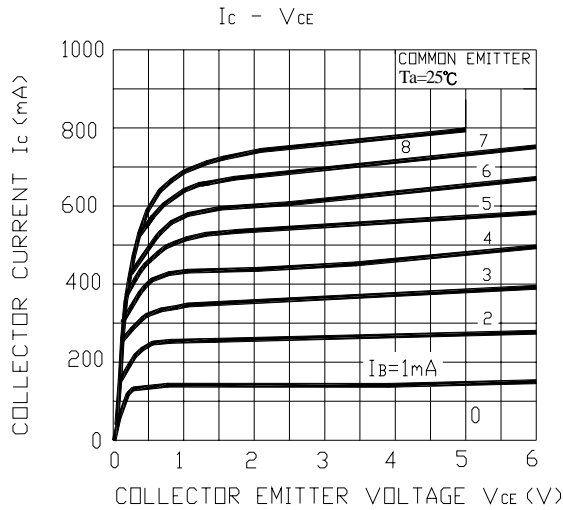
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