

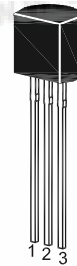
ST 8050 (2A)

查询"8050-2A"供应商

NPN Silicon Epitaxial Planar Transistor

for switching and amplifier applications. Especially suitable for AF-driver stages and low power output stages.

The transistor is subdivided into two groups C and D according to its DC current gain.



1. Emitter 2. Base 3. Collector
TO-92 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

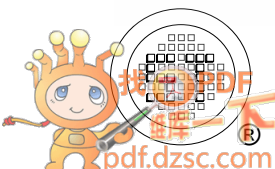
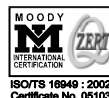
Parameter	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	40	V
Collector Emitter Voltage	V _{CEO}	25	V
Emitter Base Voltage	V _{EBO}	6	V
Collector Current	I _C	2	A
Base Current	I _B	100	mA
Power Dissipation	P _{tot}	1	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at V _{CE} = 1 V, I _C = 5 mA at V _{CE} = 1 V, I _C = 100 mA at V _{CE} = 1 V, I _C = 1.5 A	Current Gain Group C D	h _{FE}	45	-	-
		h _{FE}	120	-	200
		h _{FE}	160	-	300
		h _{FE}	40	-	-
Collector Base Cutoff Current at V _{CB} = 35 V	I _{CBO}	-	-	100	nA
Emitter Base Cutoff Current at V _{EB} = 6 V	I _{EBO}	-	-	100	nA
Collector Base Breakdown Voltage at I _C = 100 μA	V _{(BR)CBO}	40	-	-	V
Collector Emitter Breakdown Voltage at I _C = 2 mA	V _{(BR)CEO}	25	-	-	V
Emitter Base Breakdown Voltage at I _E = 100 μA	V _{(BR)EBO}	6	-	-	V
Collector Emitter Saturation Voltage at I _C = 1.5 A, I _B = 100 mA	V _{CE(sat)}	-	-	0.5	V
Base Emitter Saturation Voltage at I _C = 1.5 A, I _B = 100 mA	V _{BE(sat)}	-	-	1.2	V
Base Emitter On Voltage at I _C = 10 mA, V _{CE} = 1 V	V _{BE(on)}	-	-	1	V
Gain Bandwidth Product at V _{CE} = 10 V, I _C = 50 mA	f _T	120	-	-	MHz
Collector Base Capacitance at V _{CB} = 10 V, f = 1 MHz	C _{ob}	-	15	-	pF

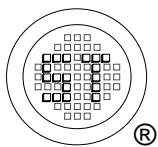
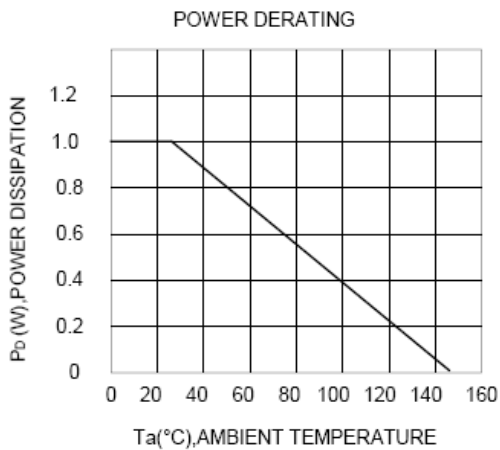
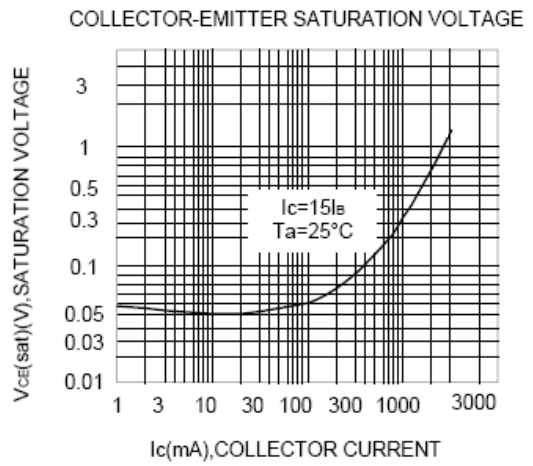
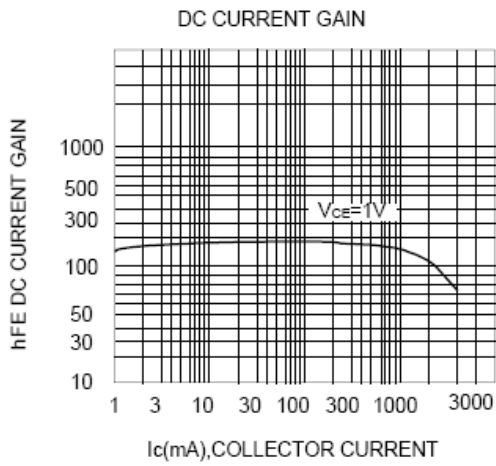
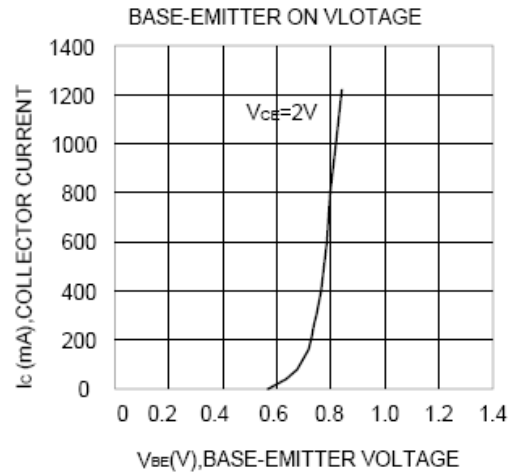
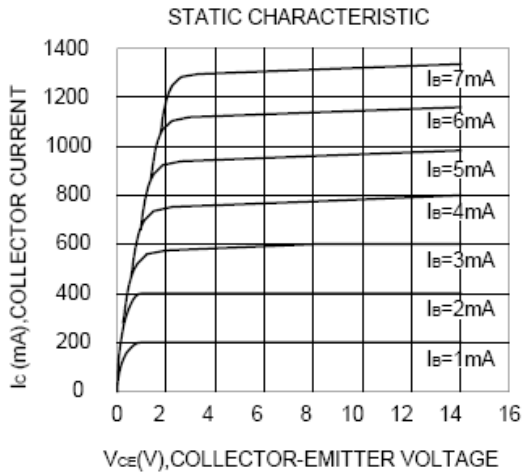
SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ST 8050 (2A)

[查询"8050-2A"供应商](#)



SEMTECH ELECTRONICS LTD.
 (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 2505/2010 Rev:01