



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

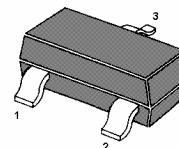
MMBTSC5343

NPN Silicon Epitaxial Planar Transistor

for general small signal amplifier.

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

SOT-23

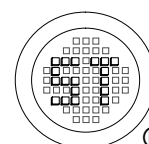


1.BASE 2.EMITTER 3.COLLECTOR

SOT-23 Plastic Package

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

	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	150	mA
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 +150	$^\circ\text{C}$



Dated : 20/10/2005



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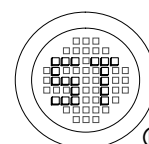
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Characteristics at T_{amb}=25 °C

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at V _{CE} =6V, I _C =1mA					
Current Gain Group O	h _{FE}	70	-	140	-
Y	h _{FE}	120	-	240	-
G	h _{FE}	200	-	400	-
L	h _{FE}	300	-	700	-
Collector Emitter Saturation Voltage at I _C =50mA, I _B =5mA	V _{CE(sat)}	-	-	400	mV
Collector Cutoff Current at V _{CB} =30V	I _{CB0}	-	-	0.5	μA
Emitter Cutoff Current at V _{EB} =4V	I _{EBO}	-	-	0.5	μA
Transition Frequency at V _{CE} =12V, I _C =2mA	f _T	-	180	-	MHz
Output Capacitance at V _{CB} =12V, f=1MHz	C _{OB}	-	2	-	pF
Collector Base Breakdown Voltage at I _C =50μA	V _{(BR)CBO}	50	-	-	V
Collector Emitter Breakdown Voltage at I _C =1mA	V _{(BR)CEO}	50	-	-	V
Emitter Base Breakdown Voltage at I _E =50μA	V _{(BR)EBO}	5	-	-	V
Noise Figure at V _{CE} =6V, I _C =0.1mA, f=1KHz, R _G =10KΩ	NF	-	1	10	dB



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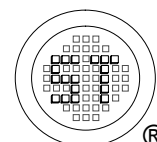
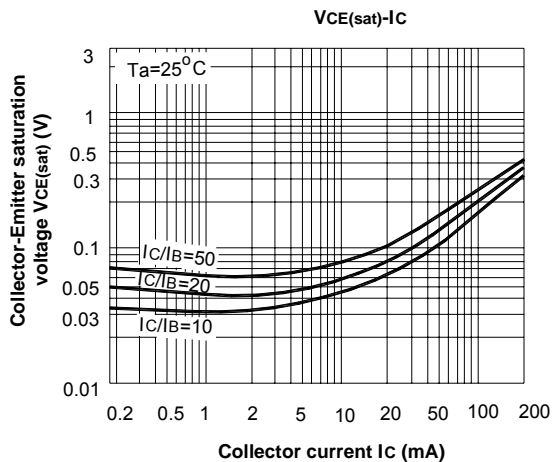
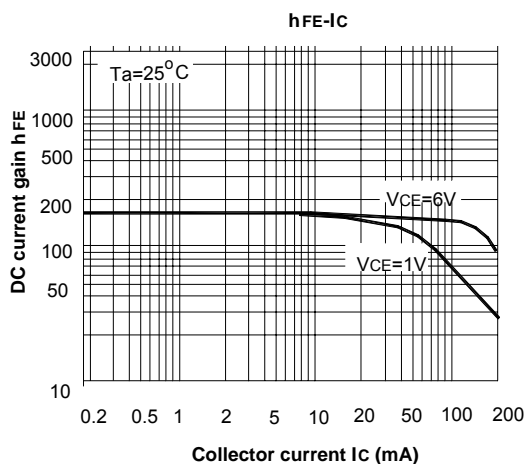
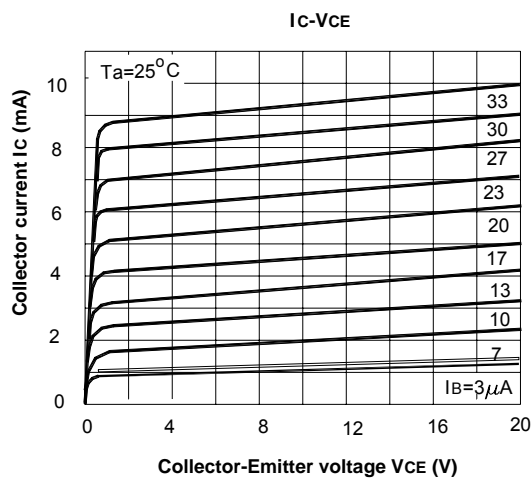
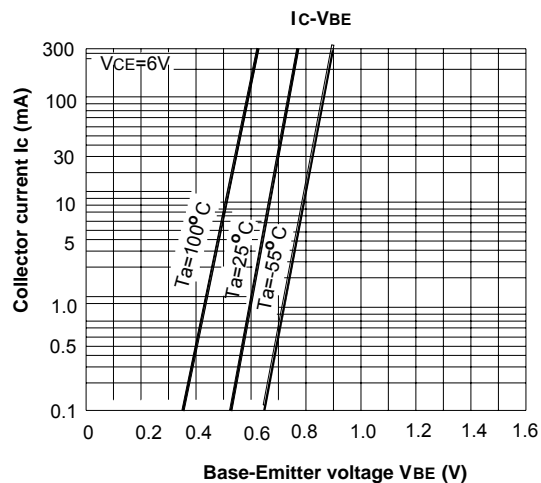
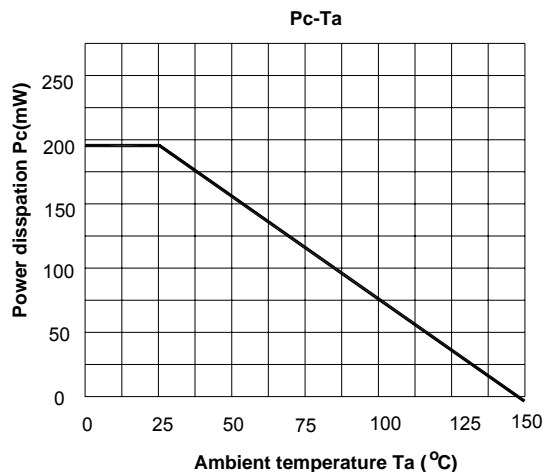
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