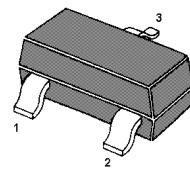


MMBTSC5343

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.



1.BASE 2.EMITTER 3.COLLECTOR

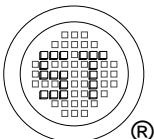
TO-236 Plastic Package

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

Parameter	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	°C
Storage Temperature Range	T_{stg}	- 55 + 150	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE} = 6$ V, $I_C = 1$ mA Current Gain Group	O	h_{FE}	70	-	140
	Y	h_{FE}	120	-	240
	G	h_{FE}	200	-	400
	L	h_{FE}	300	-	700
Collector Base Cutoff Current at $V_{CB} = 30$ V	I_{CBO}	-	-	500	nA
Emitter Base Cutoff Current at $V_{EB} = 4$ V	I_{EBO}	-	-	500	nA
Collector Base Breakdown Voltage at $I_C = 50$ μ A	$V_{(BR)CBO}$	50	-	-	V
Collector Emitter Breakdown Voltage at $I_C = 1$ mA	$V_{(BR)CEO}$	50	-	-	V
Emitter Base Breakdown Voltage at $I_E = 50$ μ A	$V_{(BR)EBO}$	5	-	-	V
Collector Emitter Saturation Voltage at $I_C = 50$ mA, $I_B = 5$ mA	$V_{CE(sat)}$	-	-	400	mV
Transition Frequency at $V_{CE} = 12$ V, $I_C = 2$ mA	f_T	-	180	-	MHz
Output Capacitance at $V_{CB} = 12$ V, $f = 1$ MHz	C_{ob}	-	2	-	pF



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ISO/TS 16949 : 2016

ISO14001 :

004 ISO 9001

BS-OHSAS

SGS
IECQ QC 080000

Certificate No. 1607130

ISO 14001 :
Certificate No.

116 Certificate No. 5

13410 Certificate

TECQ QC 030000
Certificate No. PRC-HSPM-1483-1

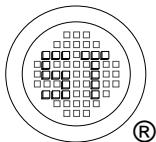
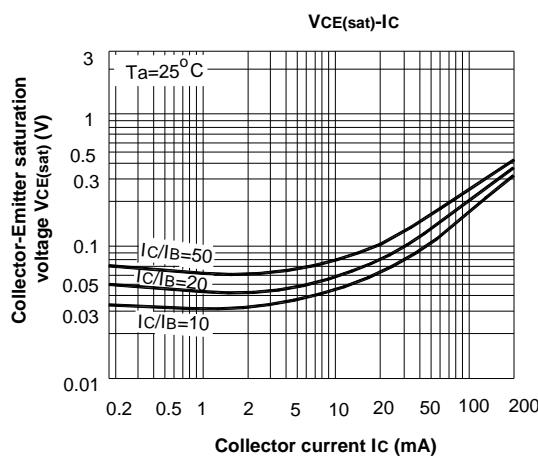
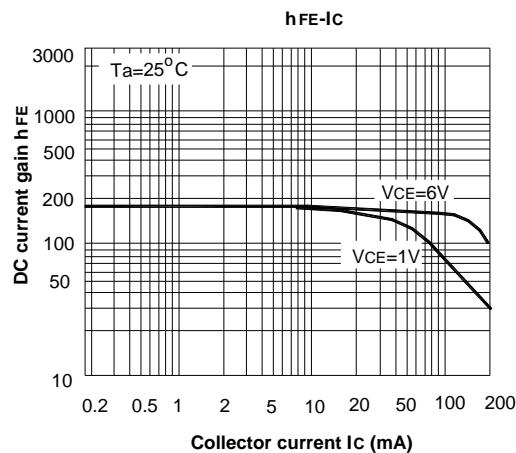
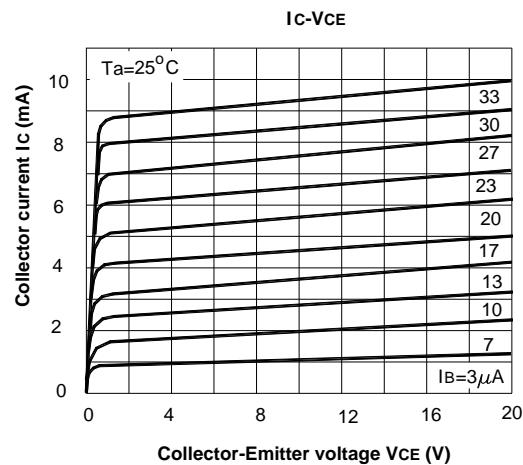
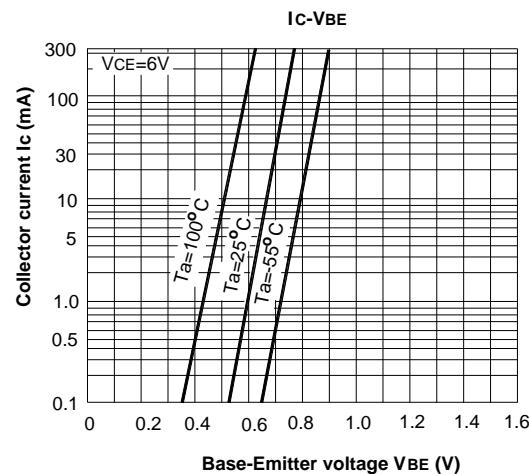
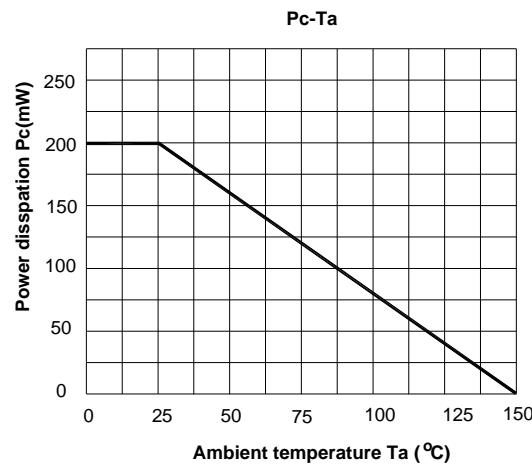
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Rev: 01

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MMBTSC5343



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