



**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.

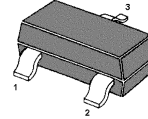
TEL: 852-2790 0314 FAX: 852-2790 0206

## MMBTSC3265

### NPN Silicon Epitaxial Planar Transistor

for low frequency power amplifier applications  
and power switching application.

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

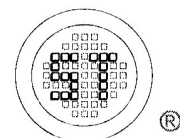


1. Base 2. Emitter 3. Collector

SOT-23 Plastic Package

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

	Symbol	Value	Unit
Collector Base Voltage	$V_{CBO}$	35	V
Collector Emitter Voltage	$V_{CEO}$	30	V
Emitter Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	800	mA
Base Current	$I_B$	160	mA
Power Dissipation	$P_{tot}$	200	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_s$	-55 to +150	$^\circ\text{C}$



**SEMTECH**

Dated : 20/10/2005



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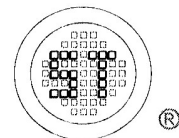
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Characteristics at  $T_{amb}=25\text{ }^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=1V, I_C=100mA$  Current Gain Group O Y	$h_{FE}$	100	-	200	-
	$h_{FE}$	160	-	320	-
	$h_{FE}$	40	-	-	-
at $V_{CE}=1V, I_C=800mA$					
Collector Cutoff Current at $V_{CB}=30V$	$I_{CBO}$	-	-	100	nA
Emitter Cutoff Current at $V_{EB}=5V$	$I_{EBO}$	-	-	100	nA
Collector Emitter Breakdown Voltage at $I_C=10mA$	$V_{(BR)CEO}$	30	-	-	V
Emitter Base Breakdown Voltage at $I_E=1mA$	$V_{(BR)EBO}$	5	-	-	V
Collector Emitter Saturation Voltage at $I_C=500mA, I_B=20mA$	$V_{CE(sat)}$	-	-	0.5	V
Transition Frequency at $V_{CE}=5V, I_C=10mA, f=100MHz$	$f_T$	-	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



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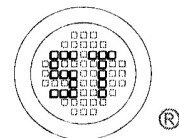
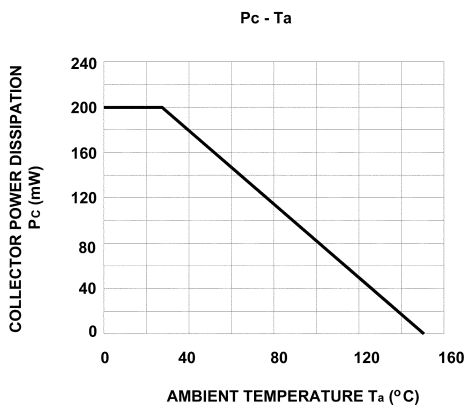
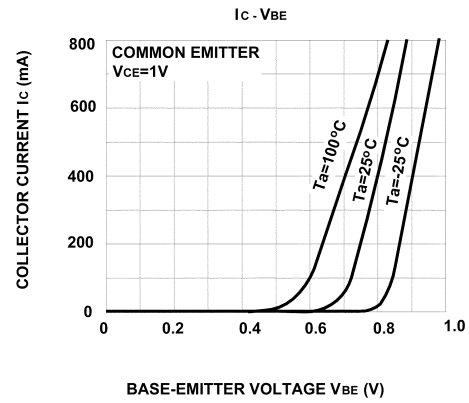
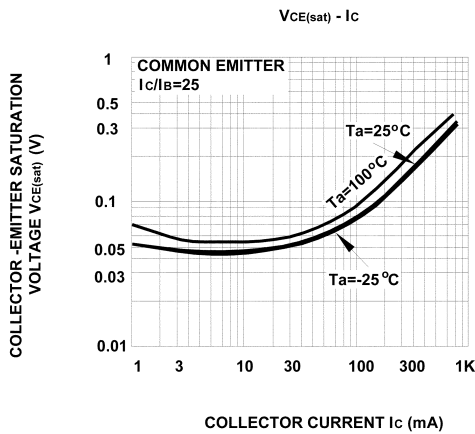
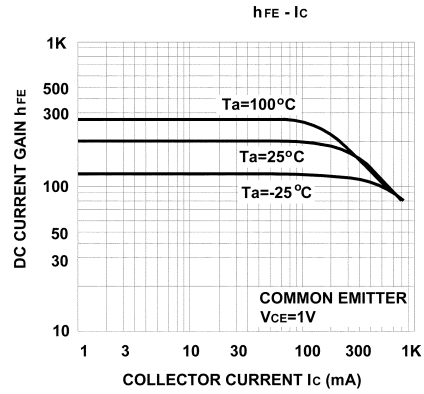
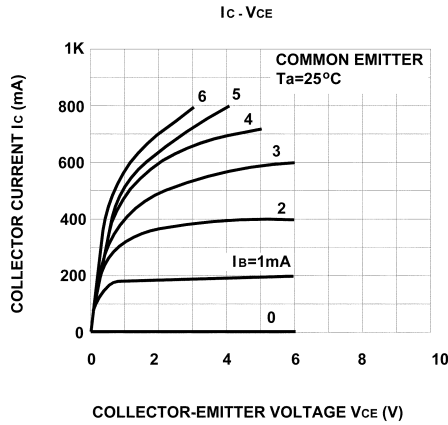
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