

# 8550 (1.5A)

## PNP Silicon Epitaxial Planar Transistor

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



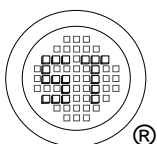
1. Emitter 2. Base 3. Collector  
TO-92 Plastic Package

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

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	$-I_C$	1.5	A
Power Dissipation	$P_{tot}$	1	W
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{Stg}$	- 55 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

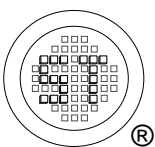
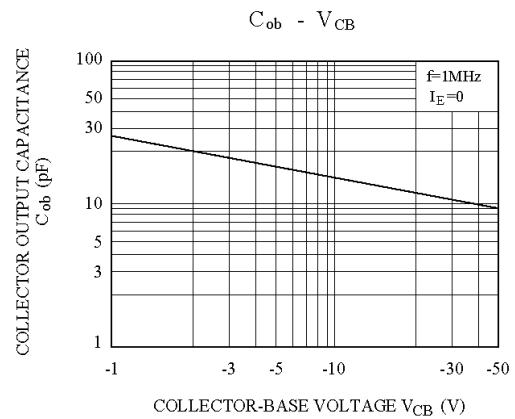
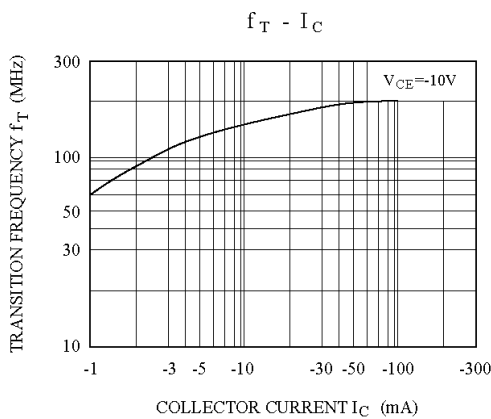
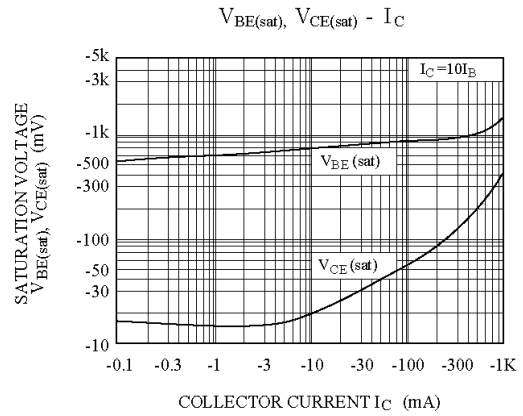
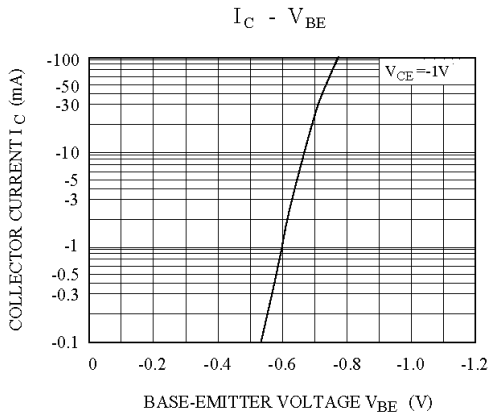
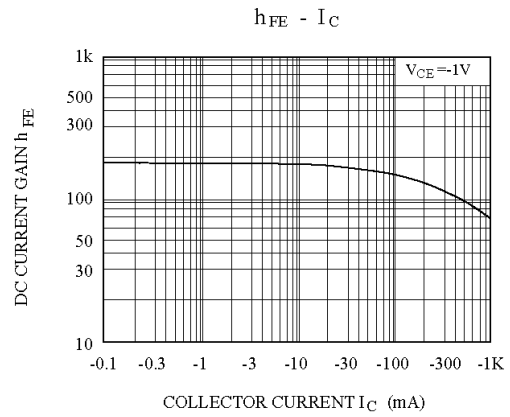
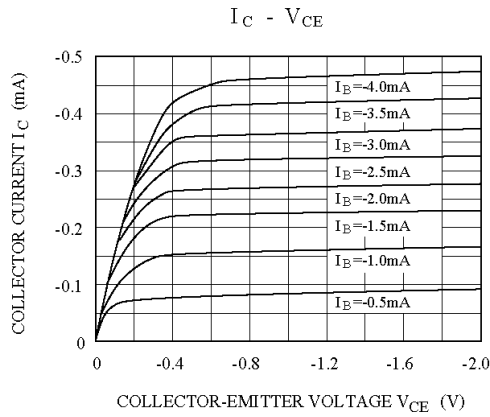
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_{CE} = 1\text{ V}$ , $-I_C = 5\text{ mA}$ at $-V_{CE} = 1\text{ V}$ , $-I_C = 100\text{ mA}$ at $-V_{CE} = 1\text{ V}$ , $-I_C = 800\text{ mA}$	Current Gain Group C D	$h_{FE}$	45	-	-
		$h_{FE}$	120	-	200
		$h_{FE}$	160	-	300
		$h_{FE}$	40	-	-
Collector Base Cutoff Current at $-V_{CB} = 35\text{ V}$	$-I_{CBO}$	-	-	100	nA
Emitter Base Cutoff Current at $-V_{BE} = 6\text{ V}$	$-I_{EBO}$	-	-	100	nA
Collector Base Breakdown Voltage at $-I_C = 100\text{ }\mu\text{A}$	$-V_{(BR)CBO}$	40	-	-	V
Collector Emitter Breakdown Voltage at $-I_C = 2\text{ mA}$	$-V_{(BR)CEO}$	25	-	-	V
Emitter Base Breakdown Voltage at $-I_E = 100\text{ }\mu\text{A}$	$-V_{(BR)EBO}$	6	-	-	V
Collector Emitter Saturation Voltage at $-I_C = 800\text{ mA}$ , $-I_B = 80\text{ mA}$	$-V_{CE(sat)}$	-	-	0.5	V
Base Emitter Saturation Voltage at $-I_C = 800\text{ mA}$ , $-I_B = 80\text{ mA}$	$-V_{BE(sat)}$	-	-	1.2	V
Base Emitter Voltage at $-I_C = 10\text{ mA}$ , $-V_{CE} = 1\text{ V}$	$-V_{BE}$	-	-	1	V
Gain Bandwidth Product at $-V_{CE} = 10\text{ V}$ , $-I_C = 50\text{ mA}$	$f_T$	120	-	-	MHz
Collector Base Capacitance at $-V_{CB} = 10\text{ V}$ , $f = 1\text{ MHz}$	$C_{ob}$	-	15	-	pF



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ISO/TS 16949 : 2009  
 Certificate No. 16073009

ISO14001 : 2004  
 Certificate No. 7116

ISO 9001 : 2008  
 Certificate No. 50719410

BS-OHSAS 18001 : 2007  
 Certificate No. 7116

IECQ QC 080000  
 Certificate No. PRC-HSPM-148-1