

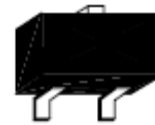
**SEBC2222**

**600mA / 75V transistors**

Revision:A

**Features**

- The SEBC2222 is designed for general purpose amplifier and high speed switching, medium power switching applications.
- High frequency current gain
- High Speed Switching



SOT-23

**Applications**

- Inverter, Interface, Driver

**Construction**

- NPN epitaxial planar silicon transistor (Resistor built-in type)

**Absolute maximum ratings (Ta=25°C)**

Parameter	Symbol	Limits	Unit
Collector-base voltage	$V_{CBO}$	75	V
Collector-emitter voltage	$V_{CEO}$	40	V
Emitter-base voltage	$V_{EBO}$	6	V
Collector current	$I_C$	600	mA
Collector power dissipation	$P_C$	225	mW
Junction temperature	$T_J$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

**Thermal Characteristics**

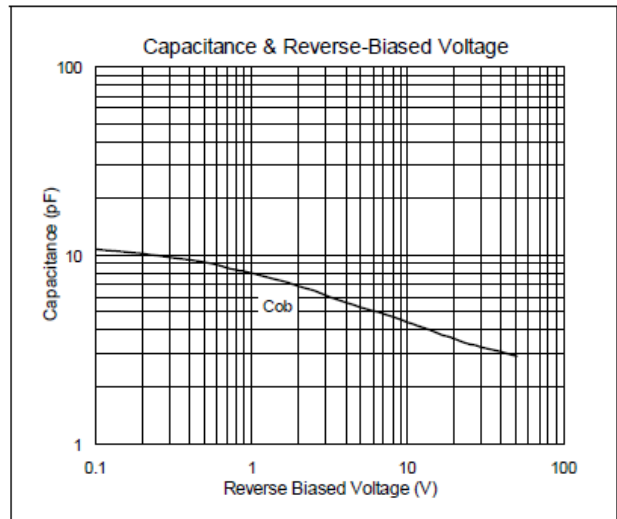
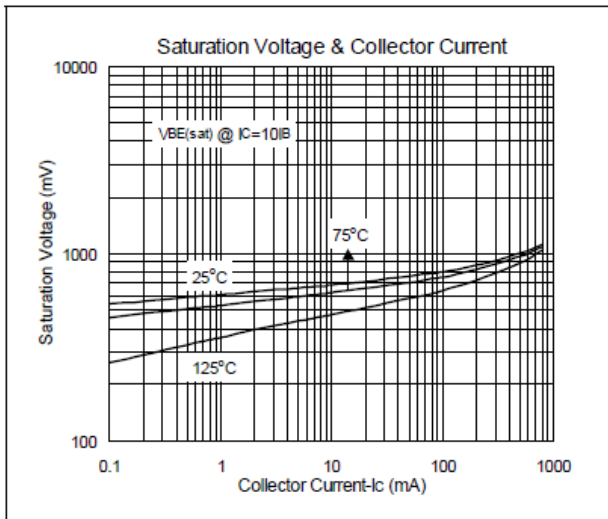
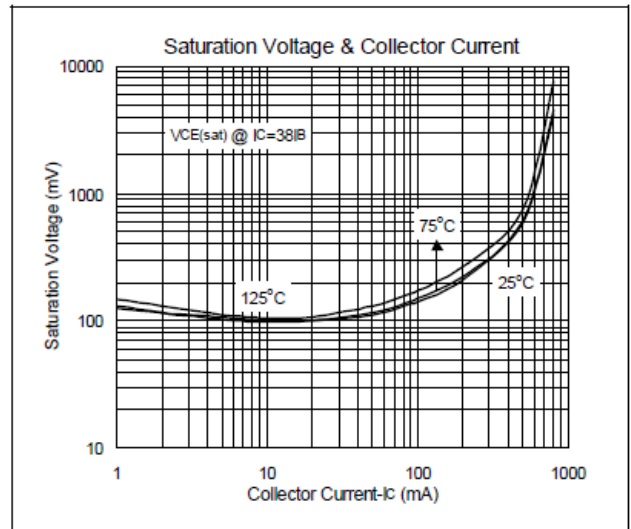
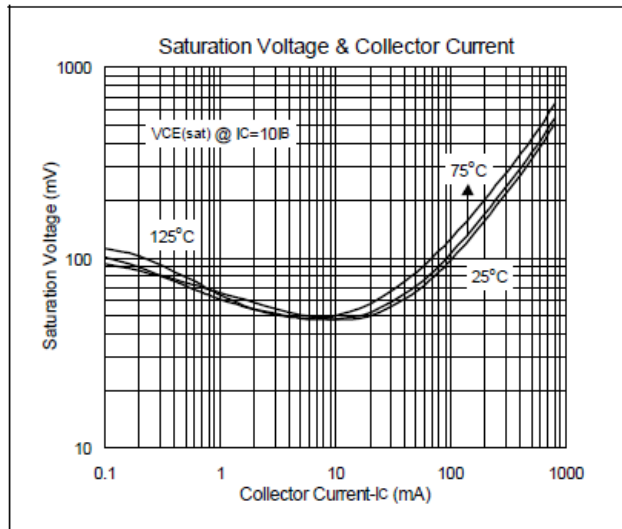
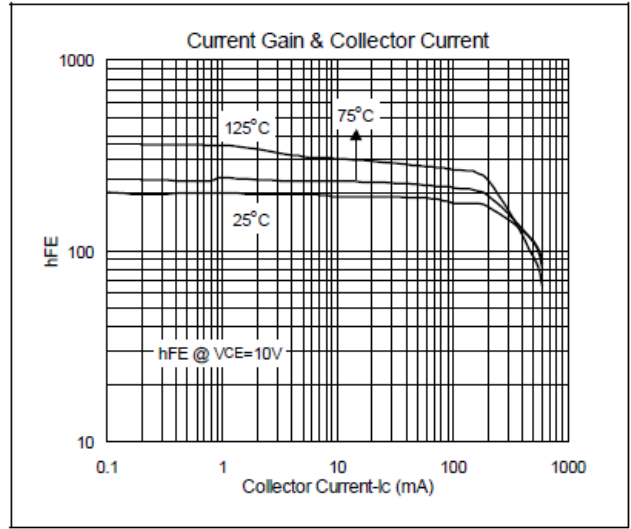
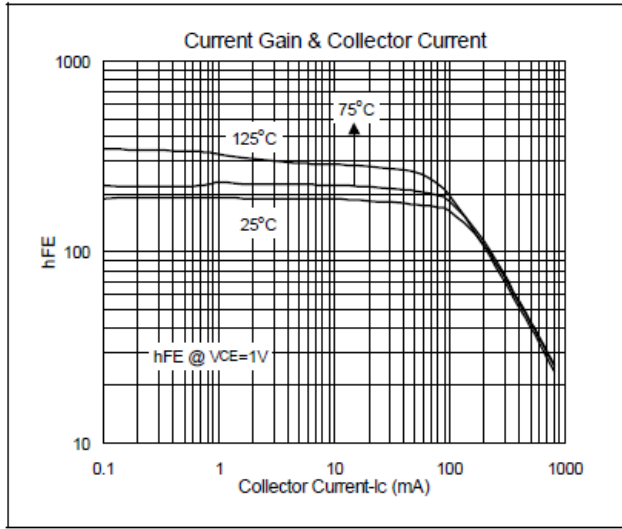
Thermal Resistance, Junction-to-Ambient (Note 2)	$R_{\theta JA}$	83	°C/W
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**Electrical characteristics (Ta=25°C)**

Parameter	Symbol	Conditions	Min..	Typ.	Max.	Unit
Collector-base breakdown voltage	$BV_{CBO}$	$I_C=10\mu A$	75	-		V
Collector-emitter breakdown voltage	$BV_{CEO}$	$I_C=10mA$	40	-	-	V
Emitter-base breakdown voltage	$BV_{EBO}$	$I_C=10\mu A$	6			V
Collector cutoff current	$I_{CBO}$	$V_{CB}=60V$	-	-	10	nA
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C/I_B=380mA/10mA$	-	-	500	mV
DC current transfer ratio	$h_{fe}$	$V_{CE}=10V, I_C=150mA$	100	-	300	-
Transition frequency	$f_T$	$V_{CB}=20V, I_C=20mA, f=100MHz$	-	300	-	MHz

\*Characteristics of built-in transistor

Characteristics Curve



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**SHANGHAI SINO-IC MICROELECTRONICS CO., LTD**

**Add:** Building 3, Room 3401-03, No.200 Zhangheng Road, ZhangJiang Hi-Tech Park, Pudong, Shanghai 201203, China

**Phone:** +86-21-33932402 33932403 33932405 33933508 33933608

**Fax:** +86-21-33932401

**Email:** [webmaster@sino-ic.com](mailto:webmaster@sino-ic.com)

**Website:** <http://www.sino-ic.com>