

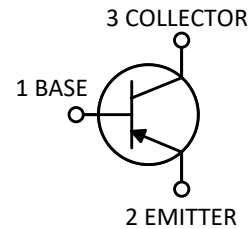
### »Features

$V_{CE} = -45V$

$I_C = -0.5A$

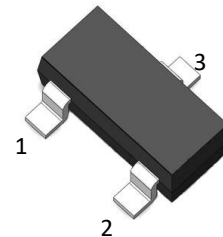
$f_T = 100MHz @V_{CE}=-5V, I_C=-10mA, f=100MHz$

### »Pin Configurations



### »General Description

- Epitaxial planar die construction
- SOT-23 Plastic Package.



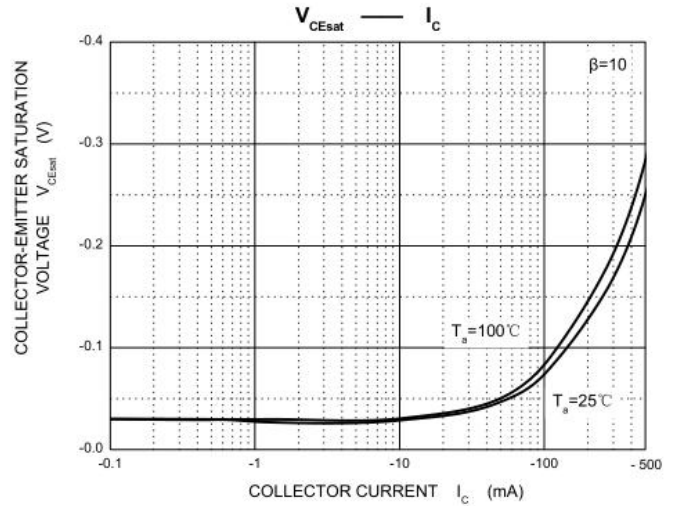
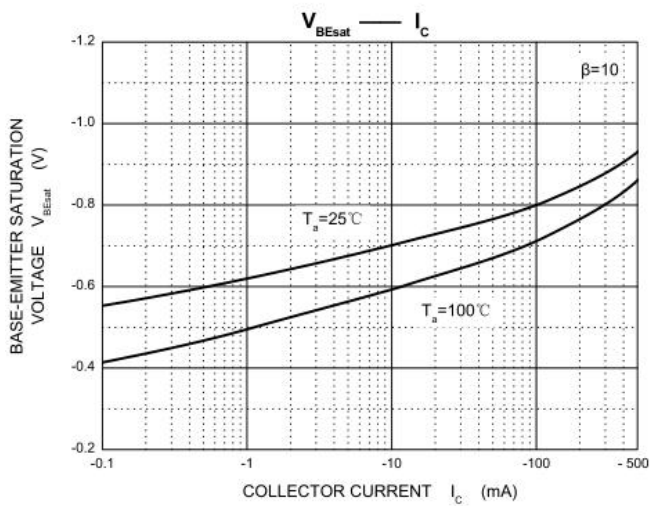
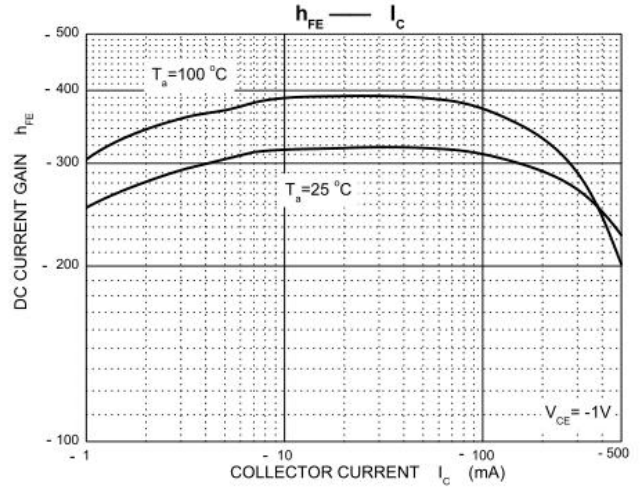
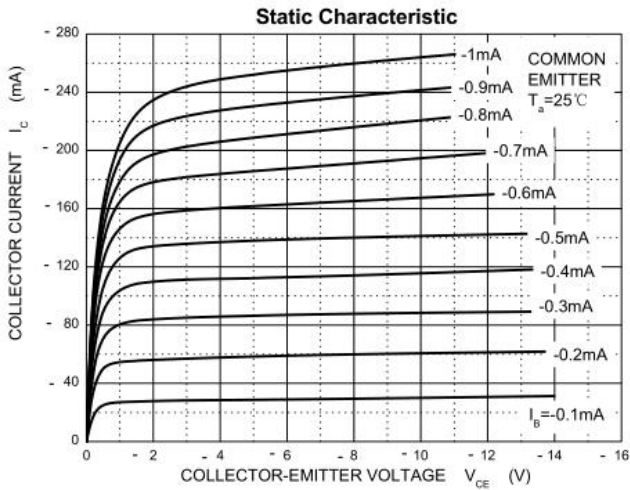
### »Absolute Maximum Ratings @ $T_A=25^{\circ}C$ unless otherwise noted

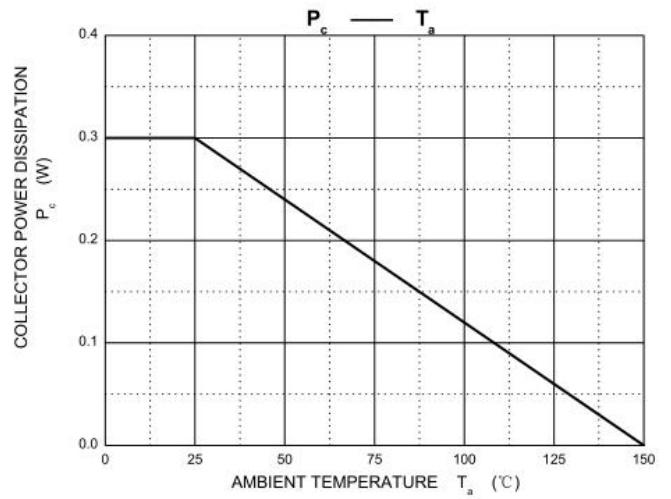
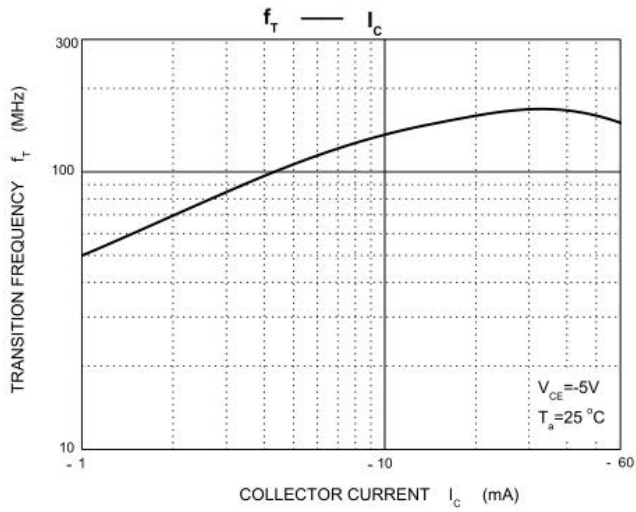
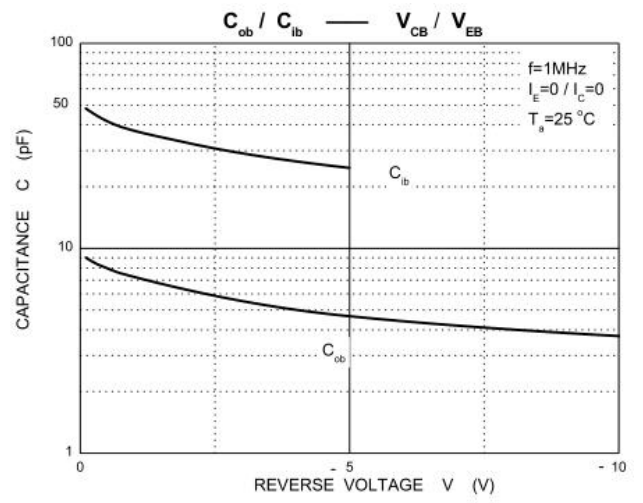
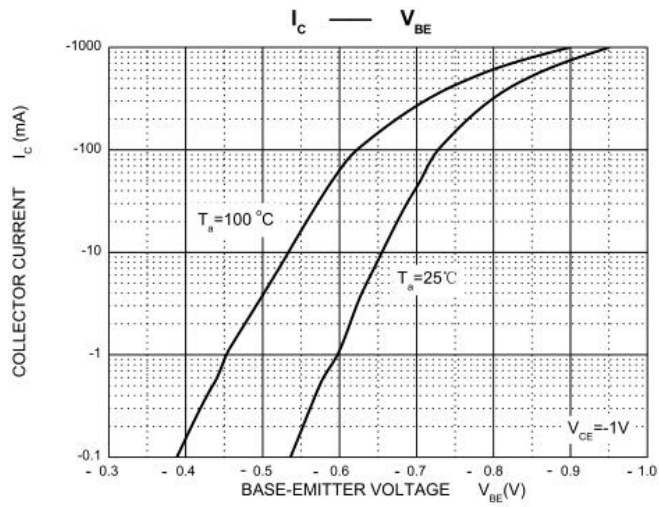
Symbol	Parameter	Value	Unit
$V_{CBO}$	Collector-Base Voltage	-50	V
$V_{CEO}$	Collector-Emitter Voltage	-45	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current	-0.5	A
$P_C$	Collector Power Dissipation	300	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	400	$^{\circ}C/W$
$T_J, T_{stg}$	Operation Junction And Storage Temperature Range	-55~+150	$^{\circ}C$

### »Electrical Characteristics @ $T_A=25^{\circ}C$ unless otherwise noted

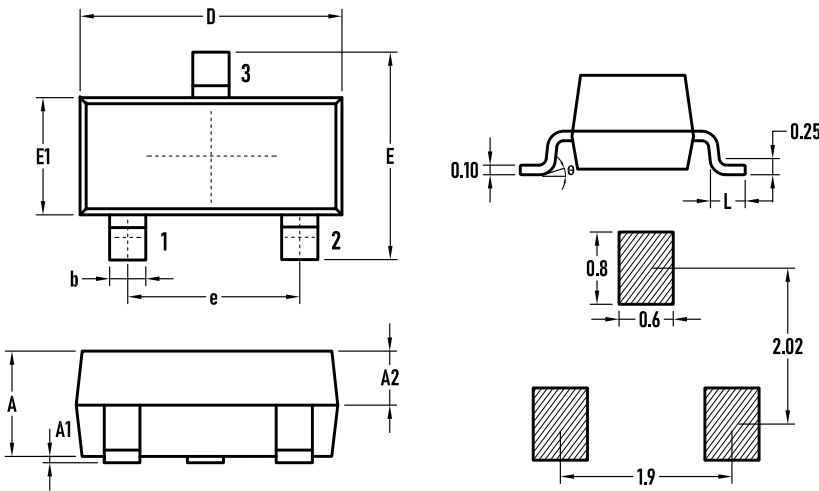
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=-10\mu A, I_E=0$	-50			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=-10mA, I_B=0$	-45			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=-1\mu A, I_C=0$	-5			V
$I_{CBO}$	Collector cut-off current	$V_{CB}=-45V, I_E=0$			-100	nA
$I_{EBO}$	Emitter cut-off current	$V_{EB}=-4V, I_C=0$			-100	nA
$h_{FE(1)}$	DC current gain(1)	$V_{CE}=-1V, I_C=-100mA$	100		600	
$h_{FE(2)}$	DC current gain(2)	$V_{CE}=-1V, I_C=-500mA$	40			
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=-500mA, I_B=-50mA$			-0.7	V
$V_{BE(sat)}$	Base-emitter saturation voltage				-1.2	V
$f_T$	Transition frequency	$V_{CE}=-5V, I_C=-10mA, f=100MHz$	100			MHz

»Typical Performance Characteristics (( $T_J = 25\text{ }^\circ\text{C}$ , unless otherwise noted))



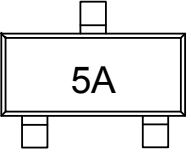
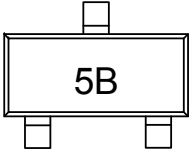
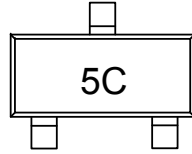


»Package Information-SOT23



SYMBOL	MILLIMETER		
	MIN.	Typ	MAX
A	0.90	1.00	1.10
A1	0.02	0.06	0.10
A2	–	0.60	–
D	2.85	2.90	2.95
b	0.37	0.40	0.43
E	2.35	2.40	2.45
E1	1.25	1.30	1.35
e	1.85	1.90	1.95
L	0.35	0.40	0.48
$\theta$	0	–	6°

»Marking

Part No.	BC807-16	BC807-25	BC807-40
$h_{FE}$	100~250	160~400	250~600
Marking			

»Ordering information

Order code	Package	Base qty	Deliverymode
BC807	SOT-23	3K	Tape and reel

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