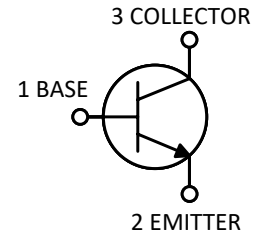


### »Features

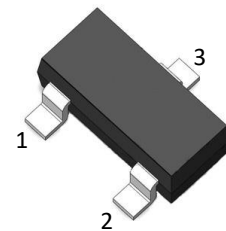
$V_{CE} = 50V$   
 $I_C = 100mA$   
 $f_T = 250MHz @V_{CE}=6V, I_C=10mA$

### »Pin Configurations



### »General Description

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



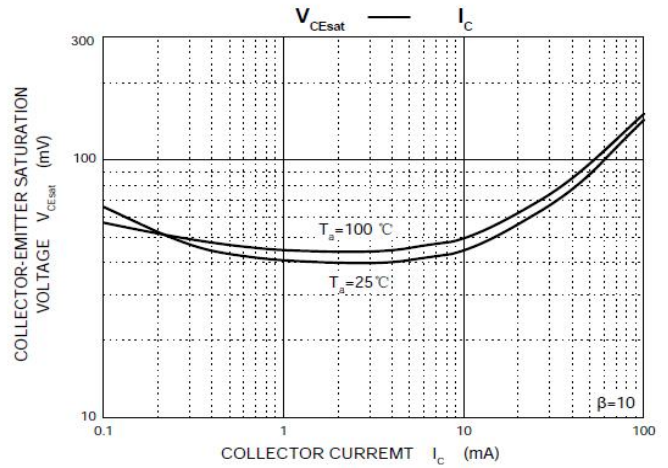
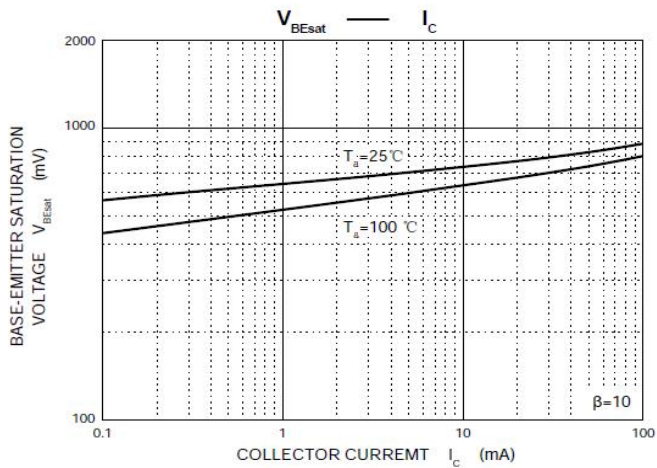
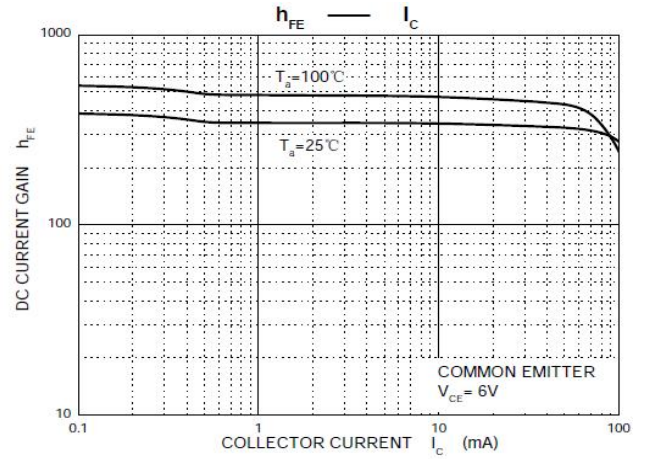
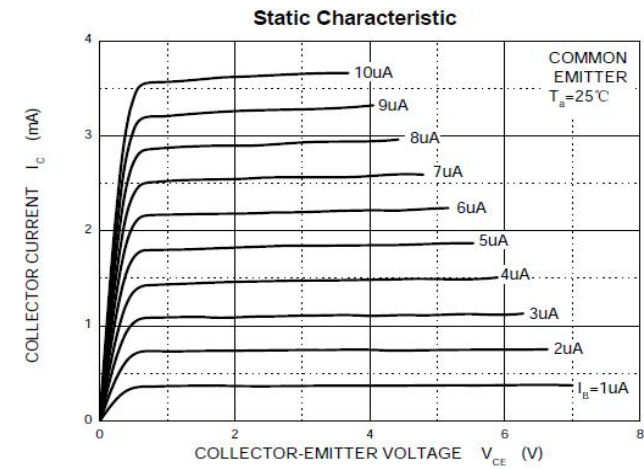
### »Absolute Maximum Ratings @ $T_A=25^{\circ}C$ unless otherwise noted

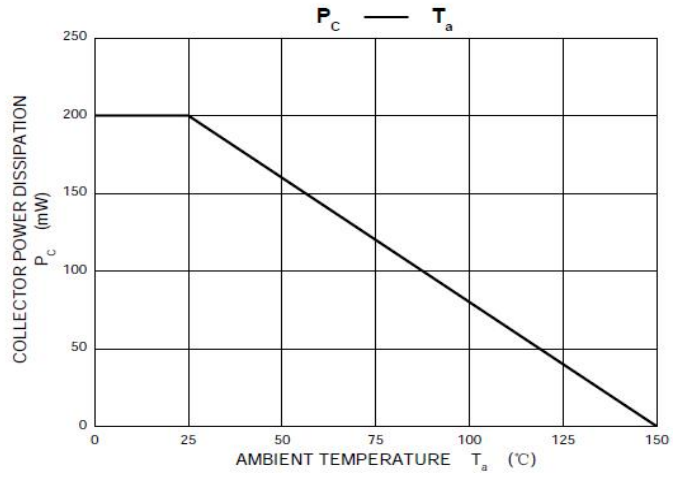
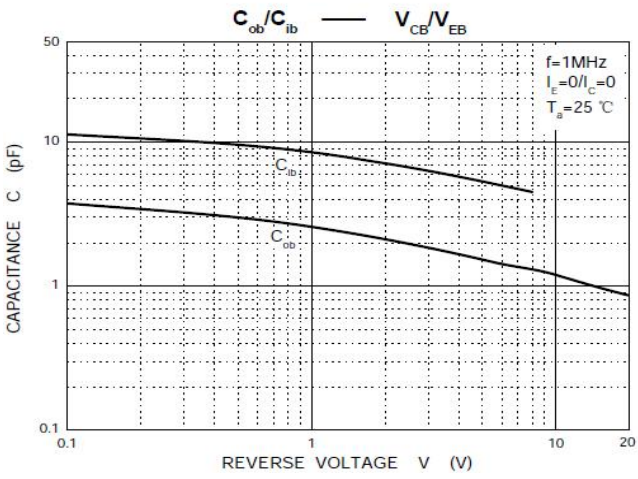
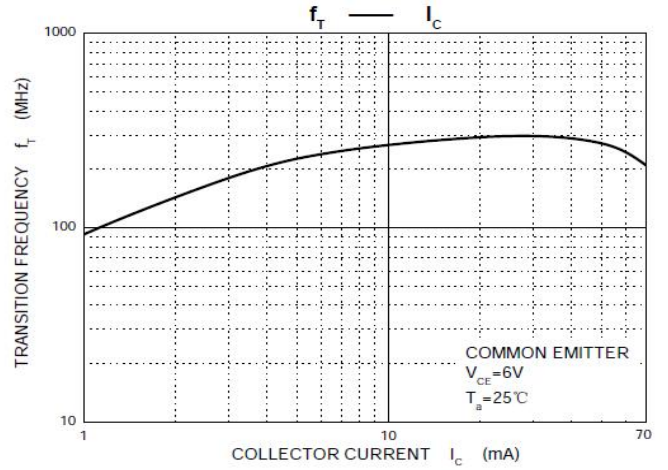
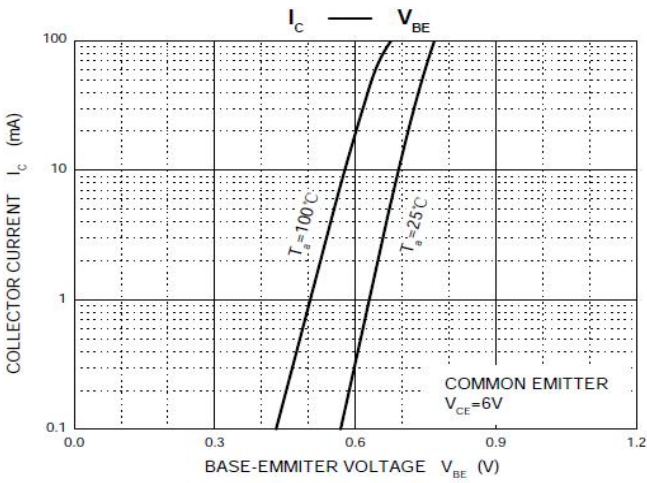
Symbol	Parameter	Value	Unit
VCBO	Collector-Base Voltage	60	V
VCEO	Collector-Emitter Voltage	50	V
VEBO	Emitter-Base Voltage	5	V
IC	Collector Current	100	mA
PC	Collector Power Dissipation	200	mW
RθJA	Thermal Resistance From Junction To Ambient	625	°C/W
TJ ,Tstg	Operation Junction And Storage Temperature Range	-55~+150	°C

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

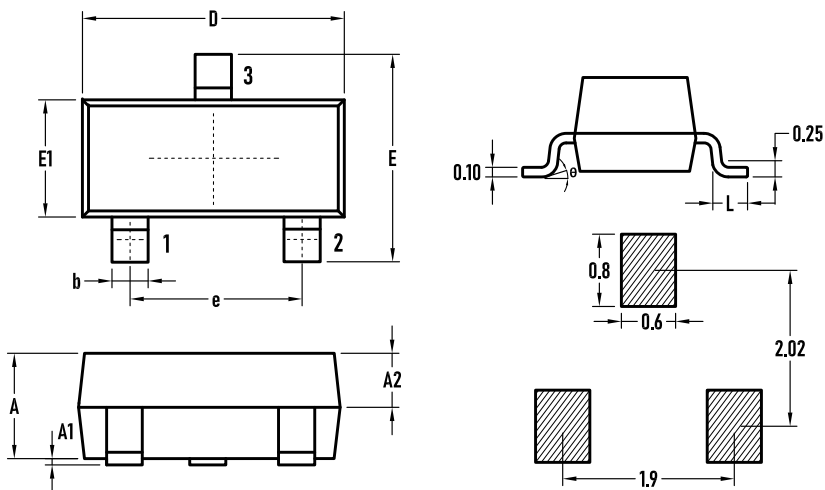
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=100\mu A, I_E=0$	60			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=1mA, I_B=0$	50			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=100\mu A, I_C=0$	5			V
$I_{CBO}$	Collector cut-off current	$V_{CB}=60V, I_E=0$			100	nA
$I_{EBO}$	Emitter cut-off current	$V_{EB}=5V, I_C=0$			100	nA
$h_{FE}$	DC current gain	$V_{CE}=6V, I_C=1mA$	90	200	600	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=100mA, I_B=10mA$			0.3	V
$V_{BE(sat)}$	Base-emitter saturation voltage				1.0	V
$f_T$	Transition frequency	$V_{CE}=6V, I_C=10mA$		250		MHz

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



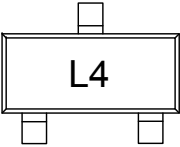
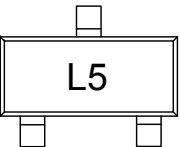
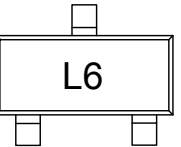
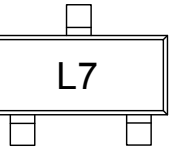


»Package Information SOT-23



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
θ	0	–	6°

»HFE Classifications & Marking

h <sub>FE</sub>	90~180	135~270	200~400	300~600
Marking	 L4	 L5	 L6	 L7

»Ordering information

Order code	Package	Base qty	Delivery mode
2SC1623	SOT-23	3K	Tape and reel

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