

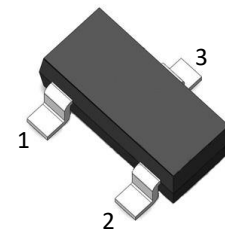
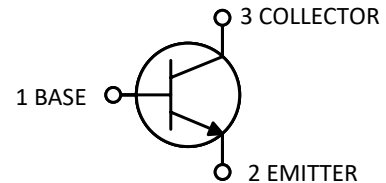
»Features

$V_{CE} = 50V$
 $I_C = 150mA$
 $f_T = 80MHz @ V_{CE}=6V, I_C=10mA$

»General Description

- Complementary to 2SA1162
- Epitaxial planar die constructio
- SOT-23 Plastic Package

»Pin Configurations



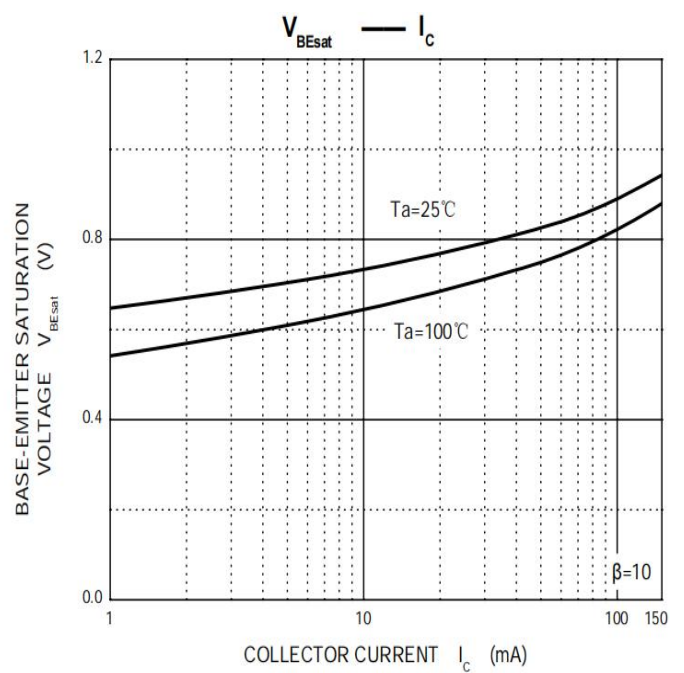
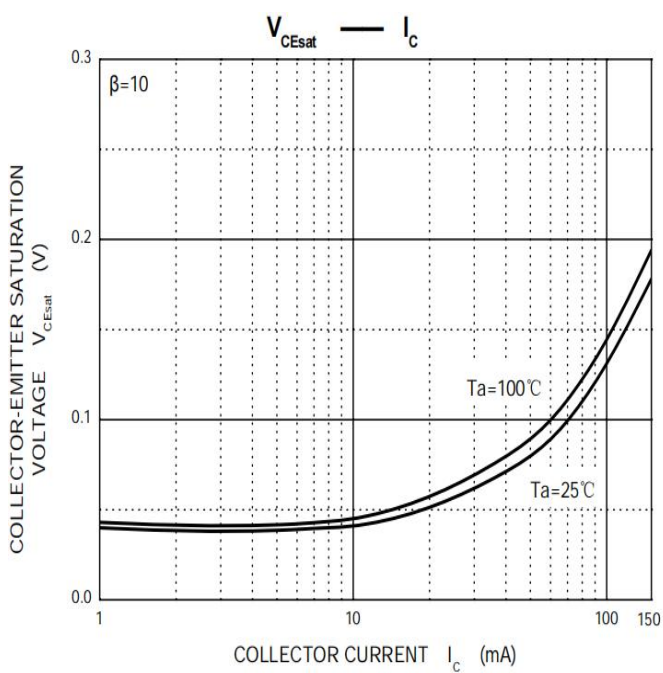
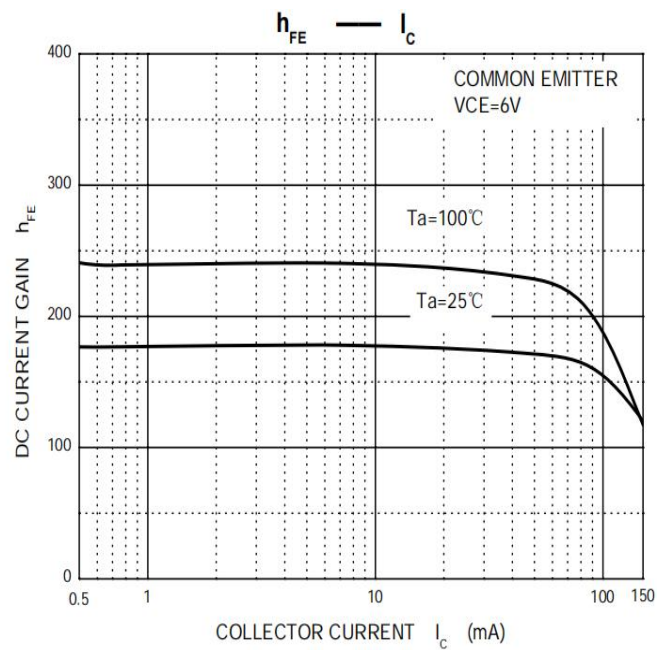
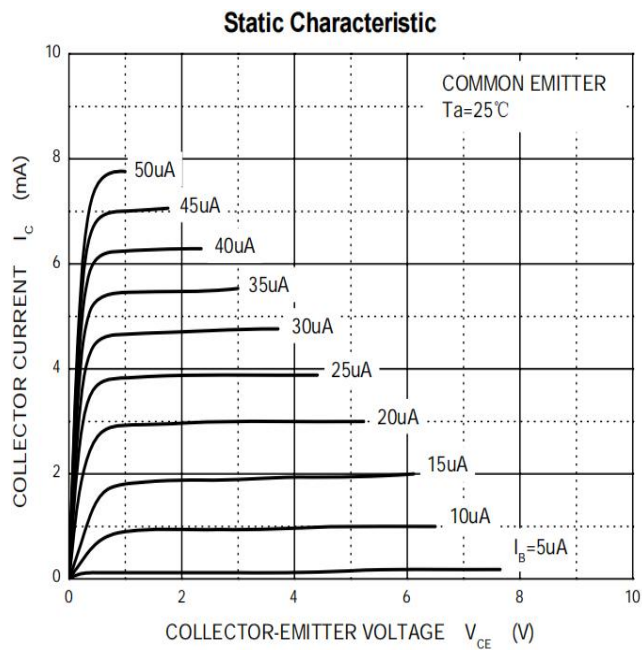
»Absolute Maximum Ratings @ $T_A=25^{\circ}C$ unless otherwise noted

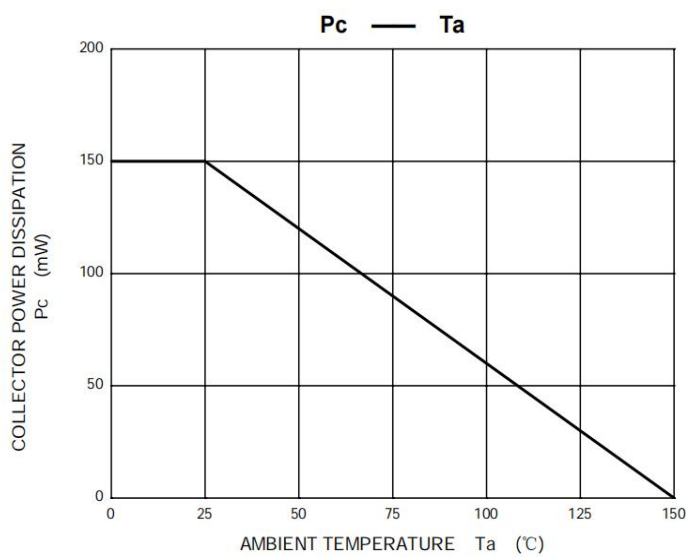
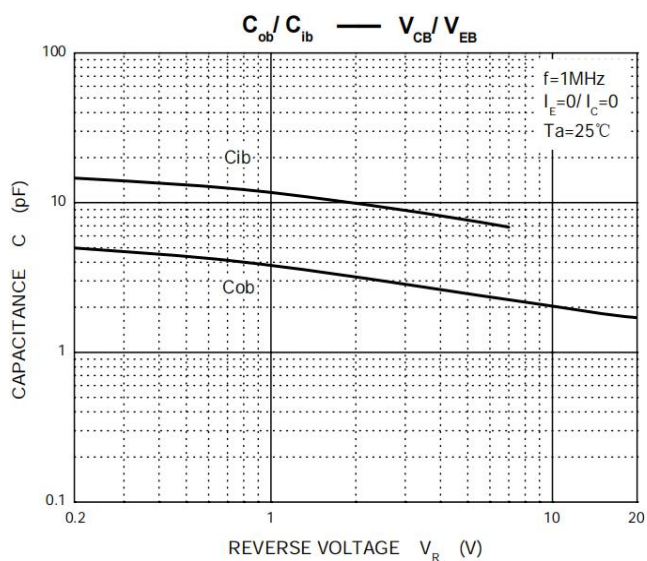
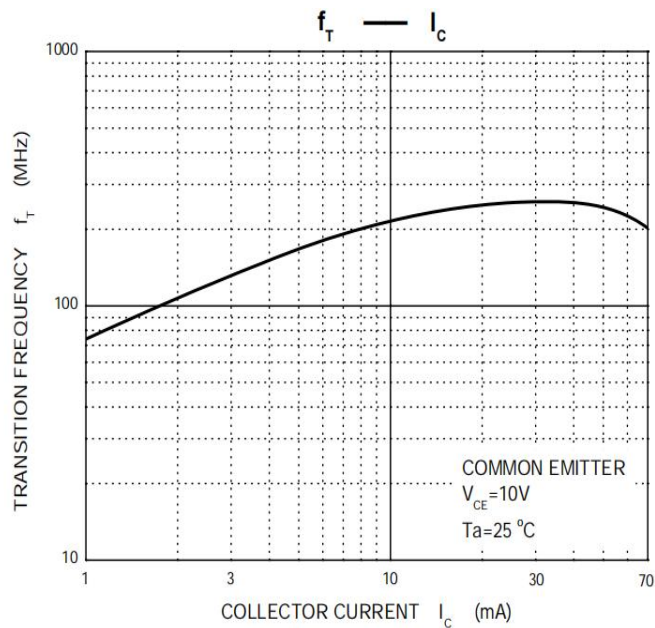
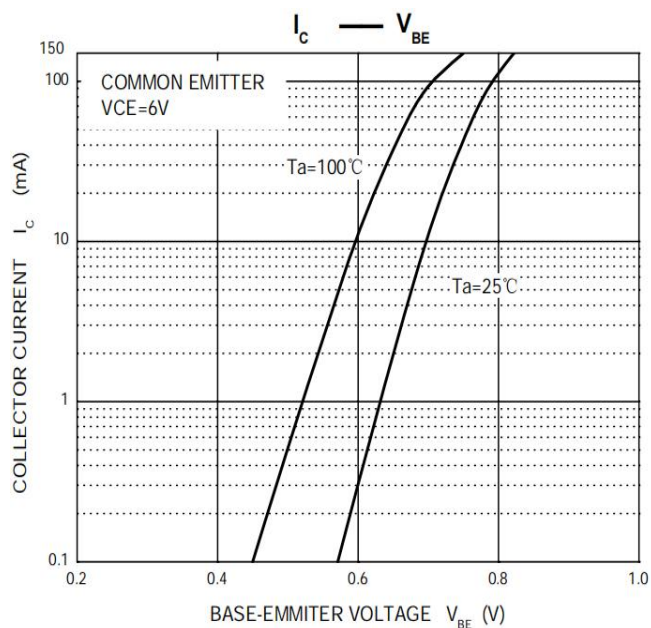
Symbol	Parameter	Value	Unit
VCBO	Collector-Base Voltage	60	V
VCEO	Collector-Emitter Voltage	50	V
VEBO	Emitter-Base Voltage	5	V
IC	Collector Current	150	mA
PC	Collector Power Dissipation	150	mW
TJ ,Tstg	Operation Junction And Storage Temperature Range	-55~+150	$^{\circ}C$

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

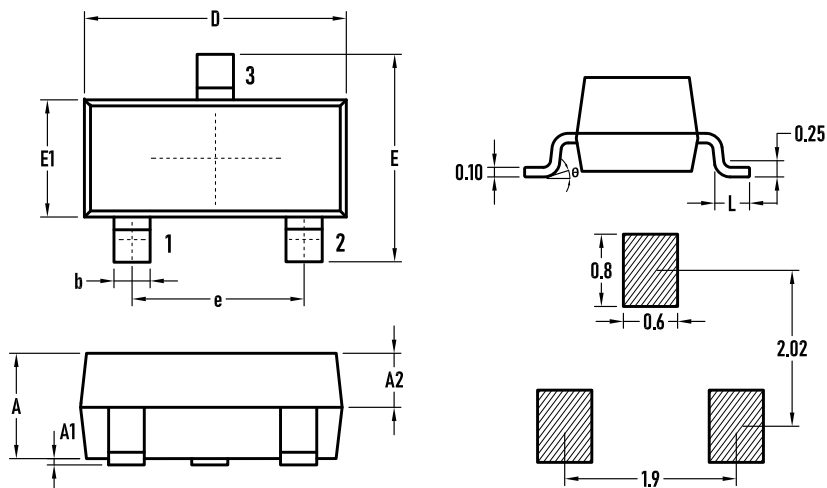
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V(BR)CBO	Collector-base breakdown voltage	$I_C=100\mu A, I_E=0$	60			V
V(BR)CEO	Collector-emitter breakdown voltage	$I_C=1mA, I_B=0$	50			V
V(BR)EBO	Emitter-base breakdown voltage	$I_E=100\mu A, I_C=0$	5			V
ICBO	Collector cut-off current	$V_{CB}=60V, I_E=0$			100	nA
IEBO	Emitter cut-off current	$V_{EB}=5V, I_C=0$			100	nA
hFE	DC current gain	$V_{CE}=6V, I_C=2mA$	70		700	
VCE(sat)	Collector-emitter saturation voltage	$I_C=100mA, I_B=10mA$		0.1	0.25	V
VBE(sat)	Base-emitter saturation voltage				1.0	V
fT	Transition frequency	$V_{CE}=10V, I_C=10mA$	80			MHz
Cob	Output capacitance	$V_{CB}=10V, I_E=0, f=1MHz$		2.0	3.5	pF
NF	Noise Figure	$V_{CE}=6V, I_C=0.1mA, f=1kHz, R_g=10k\Omega$		1.0	10	dB

»Typical Performance Characteristics ((T_J = 25 °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 _{FE}	70~140	120~240	200~400	350~700
Marking				

»Ordering information

Order code	Package	Base qty	Delivery mode
2SC2712	SOT-23	3K	Tape and reel