

PNP Silicon Epitaxial Planar Transistor

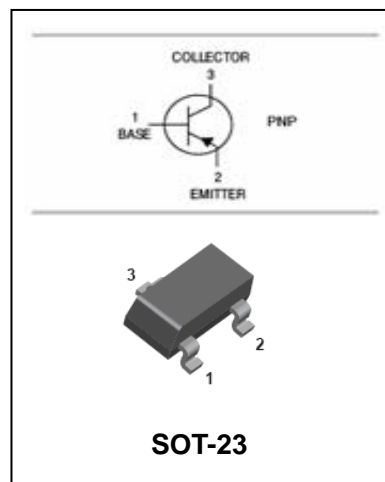
2SA1535T

FEATURES

- Adoption of MBIT Processes.
- High Current Capacitance.
- Low Collector-to-Emitter Saturation Voltage.
- High Speed Switching.
- Ultrasmall-Sized Package permitting applied sets to be made small and slim.
- High Allowable Power Dissipation.



Lead-free



ORDERING INFORMATION

Type No.	Marking	Package Code
2SA1535T	SD	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-20	V
V _{CEO}	Collector-Emitter Voltage	-20	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current –Continuous –Pulse	-3 -5	A
I _B	Base Current	600	mA
P _C	Collector Dissipation	0.9	W
T _j , T _{stg}	Junction and Storage Temperature	-55 to +150	°C



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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

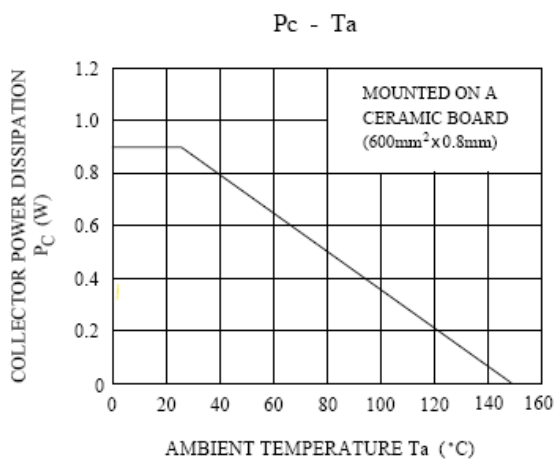
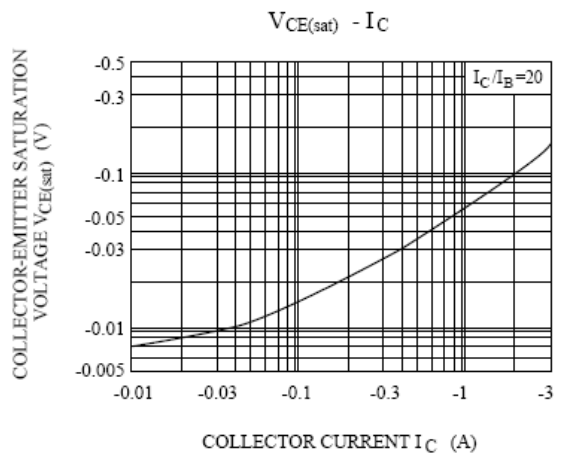
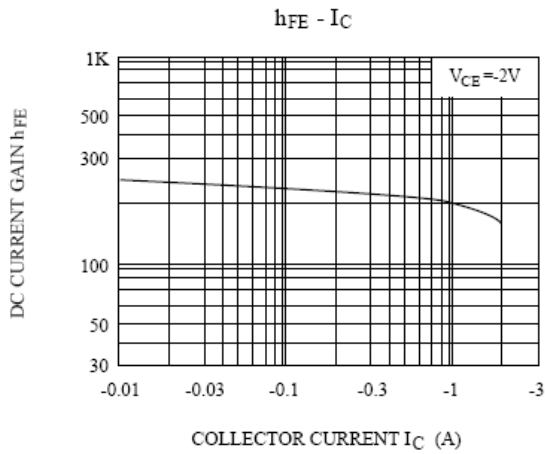
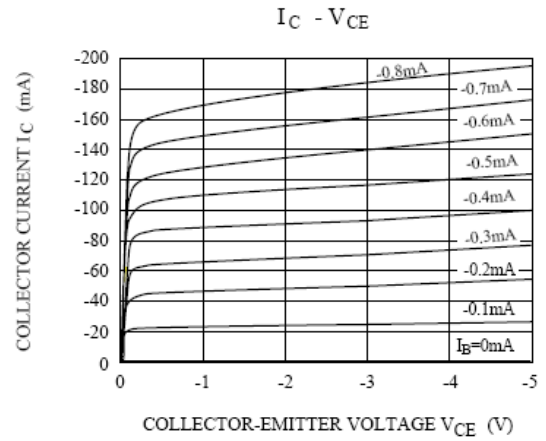
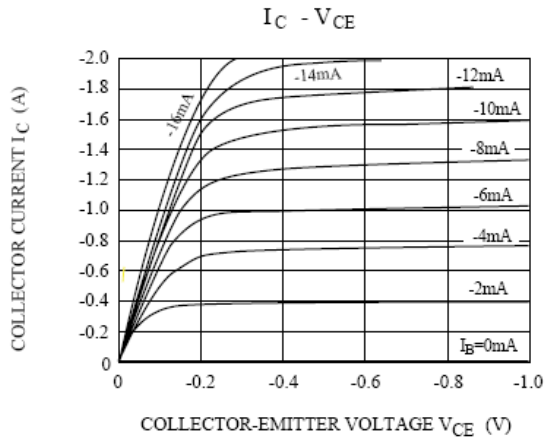
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-10\mu A, I_E=0$	-20			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-10\mu A, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-12V, I_E=0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-4V, I_C=0$			-0.1	μA
DC current gain	h_{FE}	$V_{CE}=-2V, I_C=-500mA$	200		560	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-1.5A, I_B=-30mA$			-0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-1.5A, I_B=-30mA$		-0.85	-1.2	V
Transition frequency	f_T	$V_{CE}=-2V, I_C=-0.5A$		160		MHz
Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0,$ $f=1MHz$		45		pF



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TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



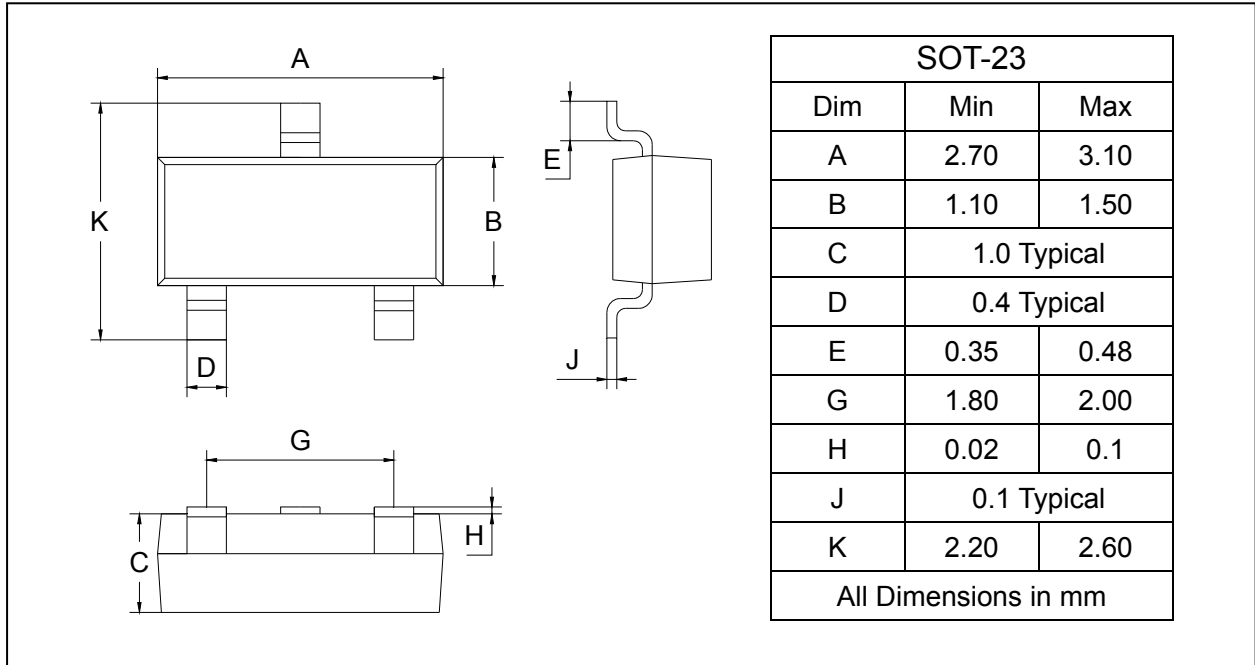
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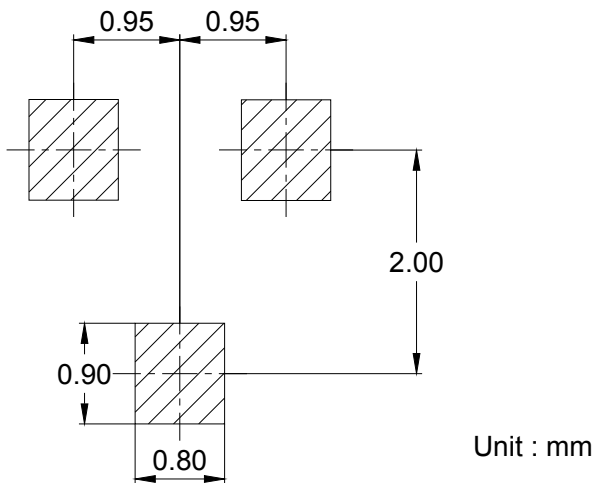
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
2SA1535T	SOT-23	3000/Tape&Reel