



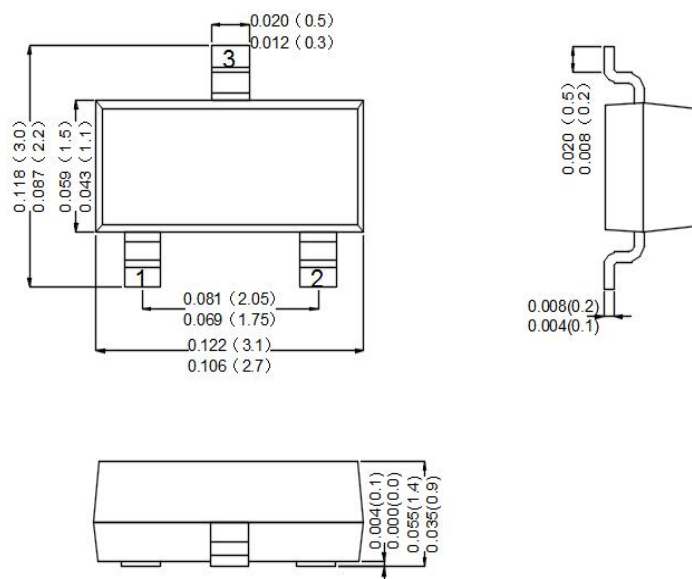
Features

- Complementary to S9015

SOT-23

Mechanical Data

- Case: Molded Plastic, SOT-23
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking: J6
- Mounting Position : Any.
- Equivalent Circuit:



Dimensions in inches and (millimeters)

Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Units
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	45	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current-Continuous	I_C	0.1	mA
Collector Power Dissipation	P_C	0.2	mW
Junction Temp erature	T_J	150	°C
Storage Temperature	T_{stg}	-55 to + 150	°C

**Electrical Characteristics** (Rating at 25°C ambient temperature unless otherwise specified.)

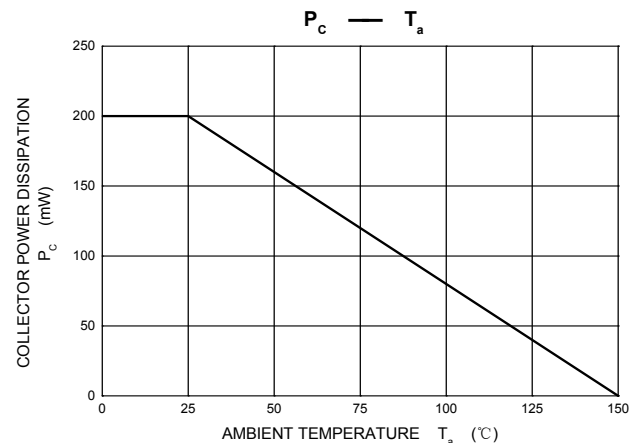
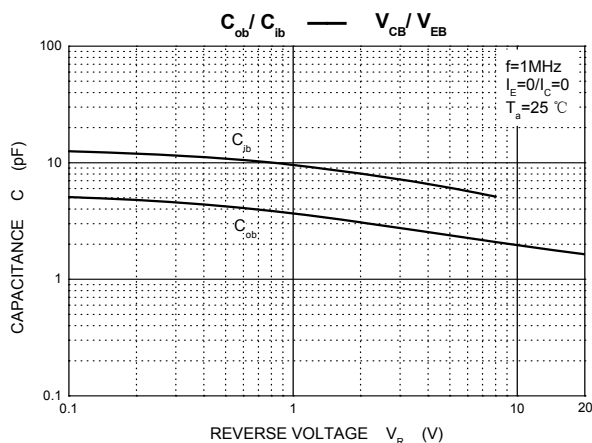
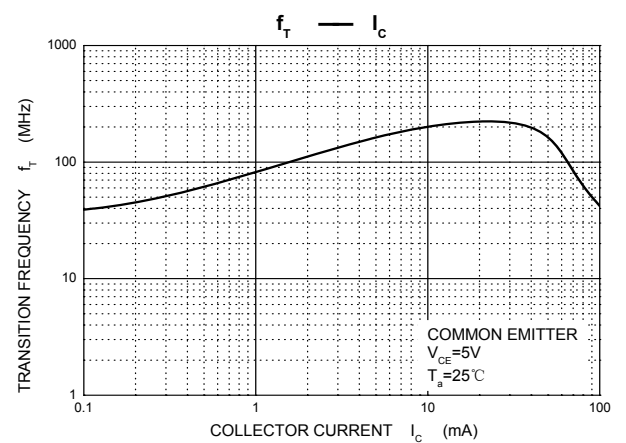
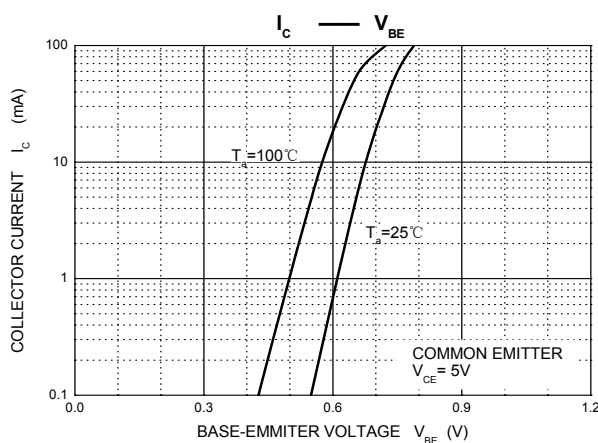
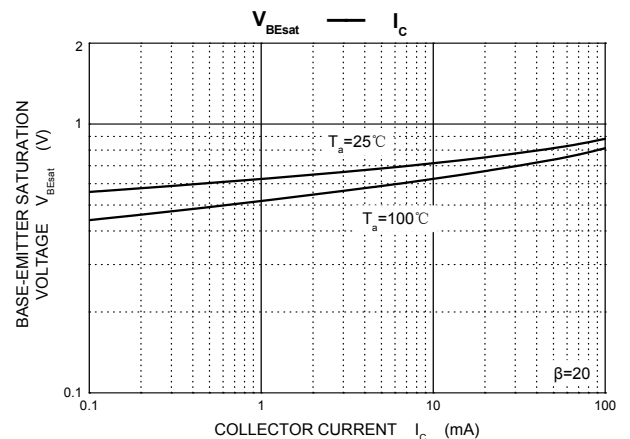
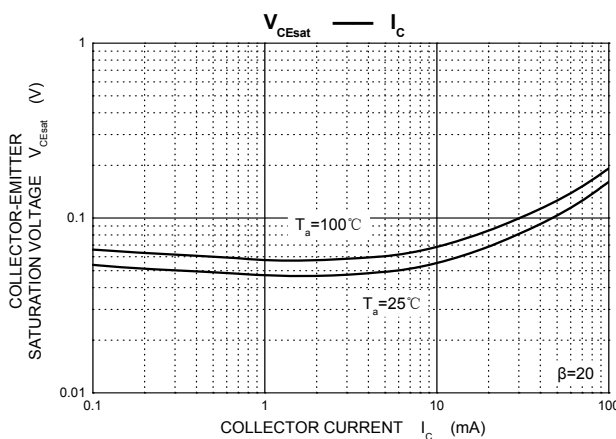
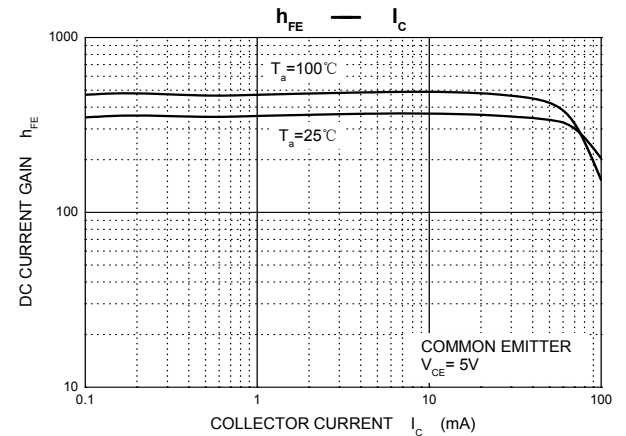
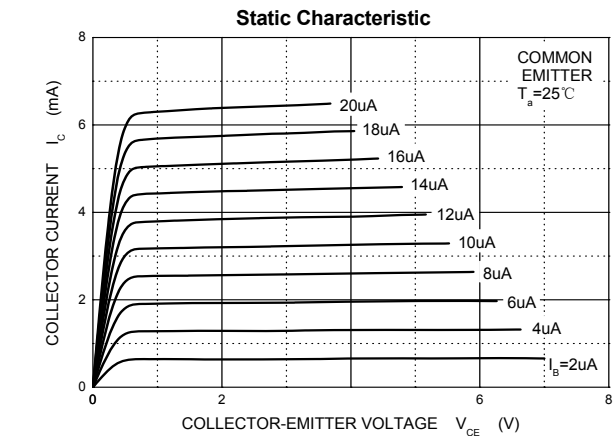
Parameter	Symbol	Test conditions	MIN	TYP	MAX	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 100\mu A, I_E = 0$	50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 0.1mA, I_B = 0$	45			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_C = 100\mu A, I_C = 0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB} = 50V, I_E = 0$			0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE} = 35V, I_B = 0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 3V, I_C = 0$			0.1	μA
DC current gain	h_{FE}	$V_{CE} = 5V, I_C = 1mA$	200		1000	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 100mA, I_B = 5mA$			0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = 100mA, I_B = 5mA$			1	V
Transition frequency	f_T	$V_{CE} = 5V, I_C = 10mA$ $f = 30MHz$	150			MHz



S9014

General Purpose NPN Transistor

Rating And Characteristic Curves





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