TRANSISTOR (NPN)

FEATURES

● **Complementary to S9015**

MARKING: J6

MAXIMUM RATINGS (T$_A$=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units
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 -Continuous	0.1	A
P$_C$	Collector Power Dissipation	0.2	W
T$_j$	Junction Temperature	150	℃
T$_{stg}$	Storage Temperature	-55-150	℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V$_{(BR)CBO}$	I$_C$= 100μA, 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$_E$=100μA, I$_C$=0	5			V
Collector cut-off current	I$_{CBO}$	V$_{CB}$=50 V , I$_E$=0			0.1	μ A
Collector cut-off current	I$_{CEX}$	V$_{CE}$=35V , V$_X$ =-3V			50	nA
Emitter cut-off current	I$_{EBO}$	V$_{EB}$= 3V , I$_C$=0			0.1	μ A
DC current gain	h$_{FE}$	V$_{CE}$=5V, I$_C$= 1mA	200		1000	
Collector-emitter saturation voltage	V$_{CE}$(sat)	I$_C$=100 mA, I$_B$= 5mA			0.3	V
Base-emitter saturation voltage	V$_{BE}$(sat)	I$_C$=100 mA, I$_B$= 5mA			1	V
Transition frequency	f$_T$	V$_{CE}$=5V, I$_C$= 10mA f=30MHz	150			MHz

CLASSIFICATION OF   h$_{FE}$

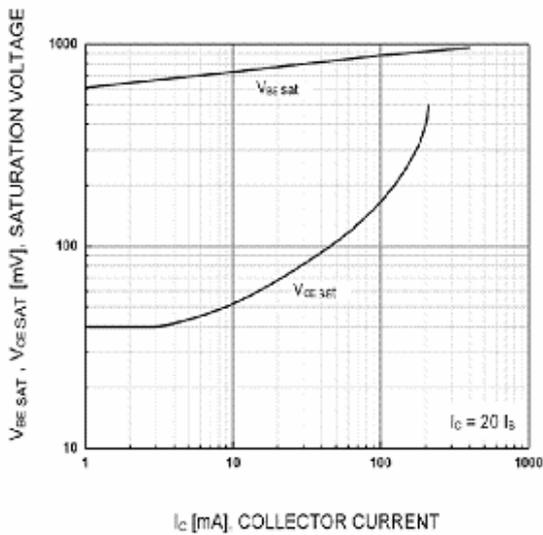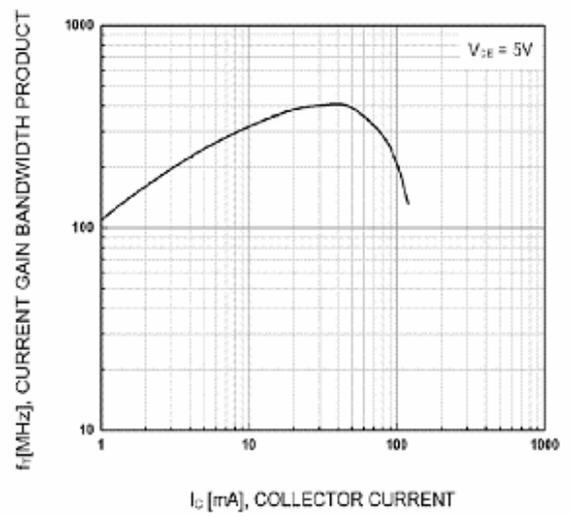| Rank	L	H
Range	200-450	450-1000
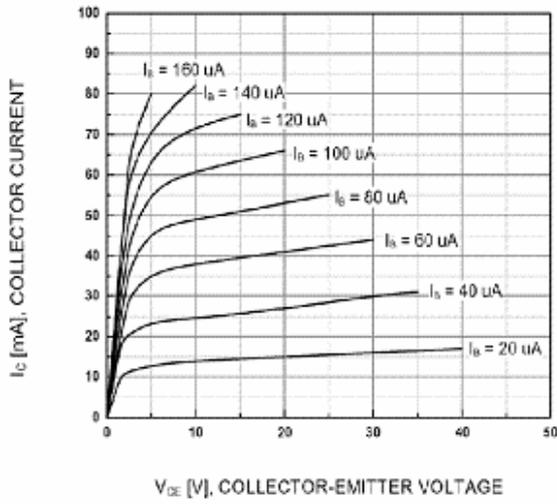
Static Characteristic
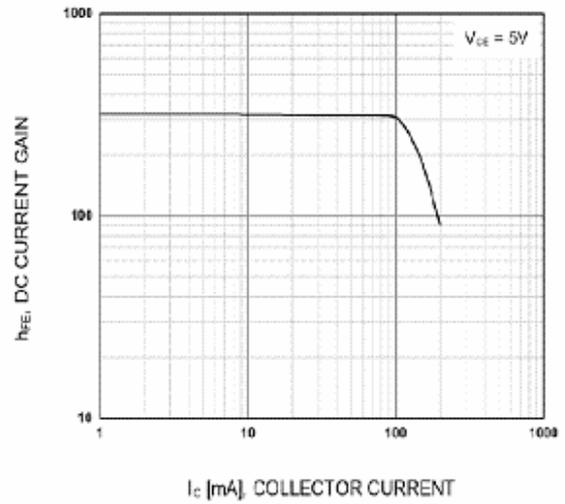
DC current Gain

Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

Current Gain Bandwidth Product

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