Elektronische Bauelemente

S9015T

-0.1A , -50V

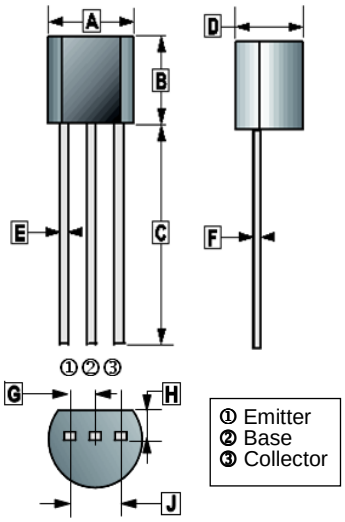
PNP Plastic Encapsulated Transistor

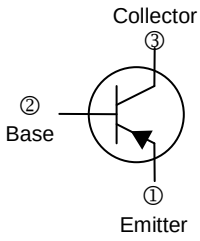
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- General Purpose Switching and Amplification.
- High Total Power Dissipation.(PC=0.45W)
- High h_{FE} and Good Linearity

TO-92





REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.70	F	0.30	0.51
B	4.30	4.70	G	1.27 TYP.	
C	12.70	-	H	1.10	1.40
D	3.30	3.81	J	2.42	2.66
E	0.36	0.56	K	0.36	0.76

CLASSIFICATION OF h_{FE}

Product-Rank	S9015T-A	S9015T-B	S9015T-C	S9015T-D
Range	60~150	100~300	200~600	400~1000

ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-50	V
Collector to Emitter Voltage	V_{CEO}	-45	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-0.1	A
Collector Power Dissipation	P_C	0.45	W
Junction, Storage Temperature	T_J, T_{STG}	150, -55~150	℃

ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test condition
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	-50	-	-	V	I_C= -0.1mA, I_E=0
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	-45	-	-	V	I_C= -1mA, I_B=0
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	-5	-	-	V	I_E= -0.1mA, I_C=0
Collector Cut-Off Current	I_{CBO}	-	-	-0.05	μA	V_{CB}= -50V, I_E=0
Emitter Cut-Off Current	I_{EBO}	-	-	-0.05	μA	V_{EB}= -5V, I_C=0
DC Current Gain	h_{FE}	60	-	1000		V_{CE}= -5V, I_C= -1mA
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	-0.3	V	I_C= -100mA, I_B= -10mA
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	-	-	-1	V	I_C= -100mA, I_B= -10mA
Transition Frequency	f_T	100	-	-	MHz	V_{CE}= -5V, I_C= -10mA, f=30MHz

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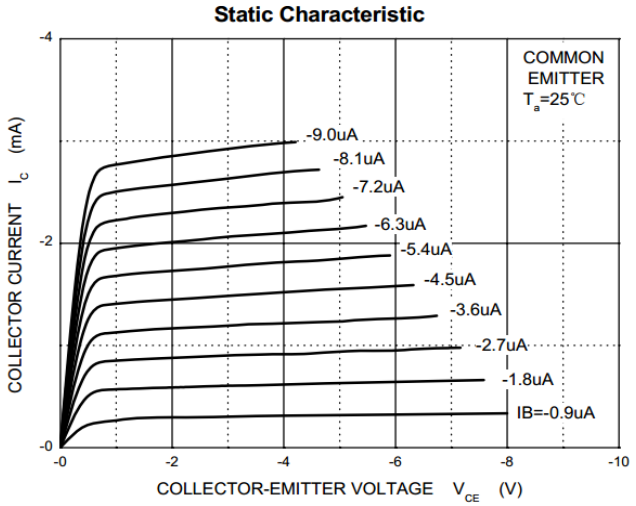
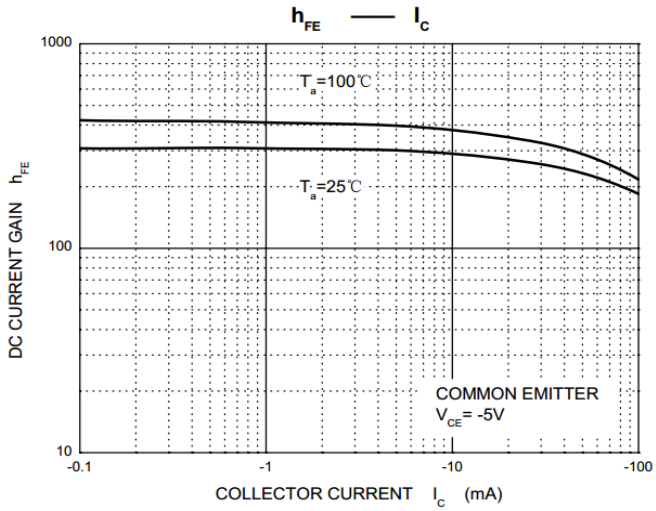
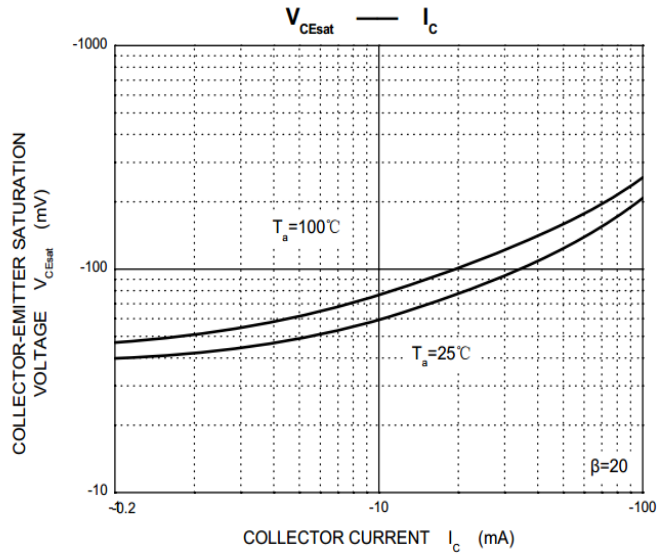
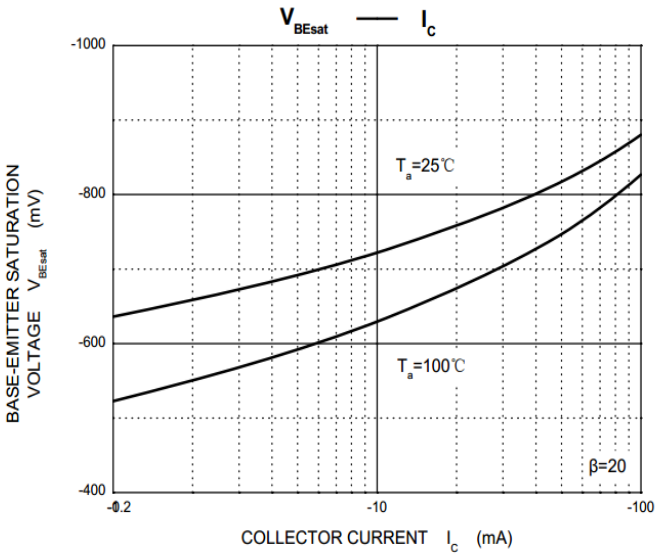
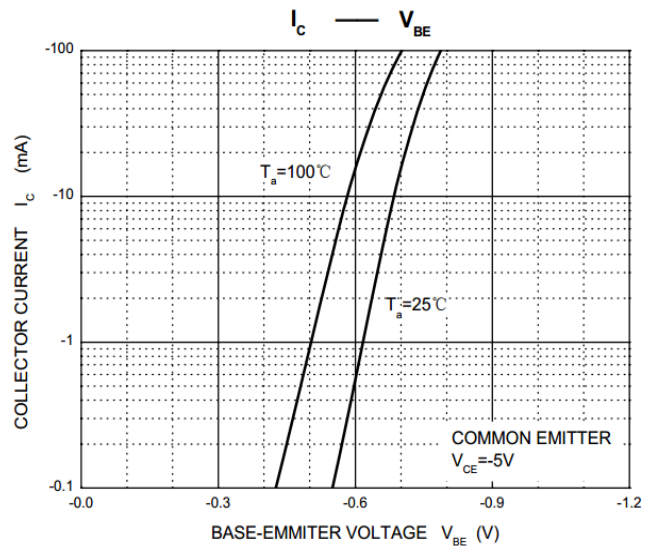
RATINGS AND CHARACTERISTIC CURVES

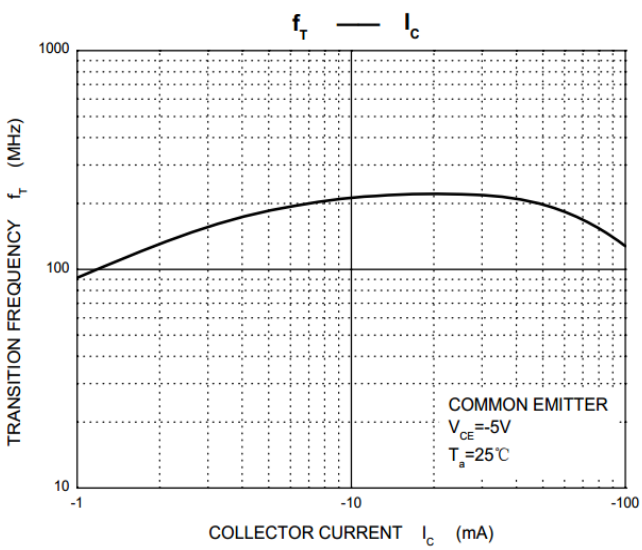












RATINGS AND CHARACTERISTIC CURVES