

FEATURES

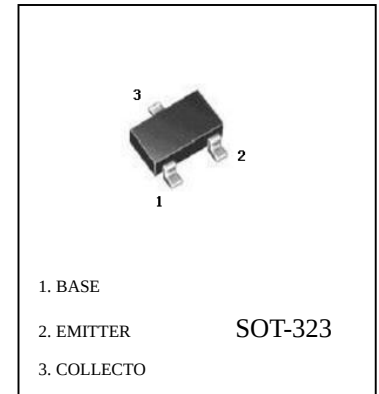
High current gain bandwidth product.
power dissipation.(PC=200mW)

Marking:J8

MAXIMUM RATINGS (TA=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	25	V
Collector-Emitter Voltage	V_{CEO}	18	V
Emitter-Base Voltage	V_{EBO}	4	V
Collector Current -Continuous	I_C	50	mA
Collector Power Dissipation	P_C	200	mW
Storage Temperature	T_{stg}	-55 to +150	℃

S9018W(NPN)



ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C=100\mu A, I_E=0$	25			V
Collector-emitter breakdown voltage	V_{CEO}	$I_C=0.1mA, I_B=0$	18			V
Emitter-base breakdown voltage	V_{EBO}	$I_E=-100\mu A, I_C=0$	4			V
Collector cut-off current	I_{CBO}	$V_{CB}=20V, I_E=0$			0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=15V, I_B=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=3V, I_C=0$			0.1	μA
DC current gain	h_{FE}	$V_{CE}=5V, I_C=1mA$	70		190	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$			0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=10mA, I_B=1mA$			1.4	V
Transition frequency	f_T	$V_{CE}=5V, I_C=5mA$ $f=400MHz$	600			MHz

S9018W Typical Characteristics

