

S9015

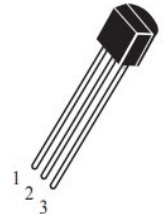
FEATURES

- Complementary to S9014
- Package: TO-92, SOT-23

Maximum Ratings (Ta = 25°)

Parameter	Symbol	Rating	Unit
Collector-base voltage	BV_{CBO}	-50	V
Collector-emitter voltage	BV_{CEO}	-45	V
Emitter-base voltage	BV_{EBO}	-5	V
Collector current	I_{CM}	-0.1	A
Collector Power Dissipation	P_C	SOT-23	200
		TO-92	450
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 ~ +150	°C

TO-92

 1. EMITTER
 2. BASE
 3. COLLECTOR

SOT-23

 1. BASE
 2. EMITTER
 3. COLLECTOR


Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C = -100\mu A, I_E = 0$	-50			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = -1mA, I_B = 0$	-45			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = -100\mu A, I_C = 0$	-5			V
collector-base cut-off current	I_{CBO}	$V_{CB} = -50V, I_E = 0$			-0.1	μA
collector-emitter cut-off current	I_{CEO}	$V_{CE} = -35V, I_B = 0$			-0.1	μA
emitter-base cut-off current	I_{EBO}	$V_{EB} = -3V, I_C = 0$			-0.1	μA
DC current gain	H_{FE}	$V_{CE} = -5V, I_C = -1mA$	60		1000	
collector-emitter saturation voltage	V_{CESAT}	$I_C = -100mA, I_B = -5mA$			-0.3	V
Base-Emitter Saturation Voltage	V_{BESAT}	$I_C = -100mA, I_B = -5mA$			-1.0	
Transition frequency	f_T	$V_{CE} = -5V, I_C = -10mA$	150			MHz

Classification of H_{FE}

Rank	S9015-A	S9015-B	S9015-C	S9015-D
Range	200-300	300-400	400-500	500-1000