

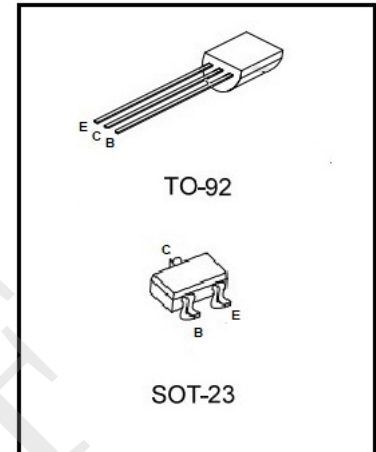
2SC1815

Features

- Complementary to: 2SA1015
- Package: TO-92/SOT-23

Maximum Ratings (Ta = 25°)

Parameter	Symbol	Rating	Unit
Collector-base voltage	BV_{CBO}	60	V
Collector-emitter voltage	BV_{CEO}	50	V
Emitter-base voltage	BV_{EBO}	5	V
Collector current	I_{CM}	150	mA
Collector Power Dissipation	P_C	TO-92	400
		SOT-23	200
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55~+125	°C



Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=50\mu A, I_E=0$	60			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=1mA, I_B=0$	50			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=50\mu A, I_C=0$	5			V
Collector-base cut-off current	I_{CBO}	$V_{CB}=60V, I_E=0$			0.1	μA
Collector-emitter cut-off current	I_{CEO}	$V_{CE}=50V, I_B=0$			0.1	μA
Emitter-base cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$			0.1	μA
DC current gain	H_{FE}	$V_{CE}=6V, I_C=2mA$	100		400	
Collector-emitter saturation voltage	V_{CESAT}	$I_C=100mA, I_B=10mA$			0.3	V
Base-Emitter Saturation Voltage	V_{BESAT}	$I_C=100mA, I_B=10mA$			1.0	
Transition frequency	f_T	$V_{CE}=10V, I_C=1mA, f=30MHz$	80			MHz

Classification of H_{FE}

Rank	2SC1815-L	2SC1815-H
Range	100-200	200-400