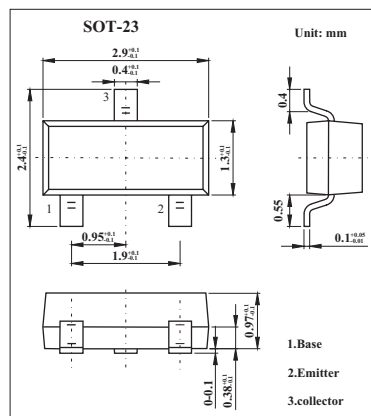


2SC2859

■ Features

- Excellent hFE linearity : $hFE(2) = 25$ (min) ($V_{CE} = 6V, I_C = 400mA$).



■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	35	V
Collector-emitter voltage	V_{CEO}	30	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_C	500	mA
Base current	I_B	50	mA
Collector power dissipation	P_C	150	mW
Junction temperature	T_j	125	$^\circ C$
Storage temperature range	T_{stg}	-55 to +125	$^\circ C$

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector cut-off current	I_{CBO}	$V_{CB} = 35V, I_E = 0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 5V, I_C = 0$			0.1	μA
DC current gain	$hFE1$	$V_{CE} = 1V, I_C = 100mA$	70		400	
	$hFE2^*$	$V_{CE} = 6V, I_C = 400mA$	25			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 100mA, I_B = 10mA$		0.1	0.25	V
Base-emitter voltage	V_{BE}	$V_{CE} = 1V, I_C = 100mA$		0.8	1.0	V
Transition frequency	f_T	$V_{CE} = 6V, I_C = 20mA$		300		MHz
Collector output capacitance	C_{ob}	$V_{CB} = 6V, I_E = 0, f = 1MHz$		7		pF

* $hFE2$ classification O: 25 min, Y: 40 min, GR: 70 min

■ hFE Classification

Marking	WO	WY	WG
hFE	70~140	120~240	200~400