

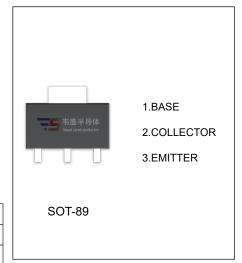
2SC4115 TRANSISTOR (NPN)

FEATURES

- Low $V_{CE(sat)}$. $V_{CE(sat)} = 0.2V \text{ (Typ.)}(I_C / I_B = 2A / 0.1A)$
- Excellent current gain characteristics.
- Complements to 2SA1585

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	20	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous	3	Α
Pc	Collector Power Dissipation	500	mW
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~150	℃



ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 50μA, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA , I _B =0	20			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =50μΑ, I _C =0	6			V
Collector cut-off current	Ісво	V _{CB} =30V, I _E =0			0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _C =0			0.1	μΑ
DC current gain	h _{FE}	V _{CE} =2V, I _C = 0.1A	120		560	
Collector-emitter saturation voltage*	V _{CE(sat)}	I _C = 2A, I _B =0.1A			0.5	V
Transition frequency	f _T	V _{CE} =2V, I _C =0.5 A F=100MHz	200	290		MHz

^{*}pulse test

CLASSIFICATION OF hFE

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Rank	Q	R	s			
Range	120-270	180-390	270-560			
marking	4115Q	4115R	4115S			