DEVELOPING

2SC5814, 2SC5815, 2SC5816, 2SC5817

For Low Frequency Amplify Application Silicon NPN Epitaxial Type

DESCRIPTION

2SC5814, 2SC5815, 2SC5816, 2SC5817 is a super mini package silicon NPN epitaxial type transistor. It is designed for low frequency voltage amplify application.

FEATURE

Facilitates miniaturization and high-density mounting

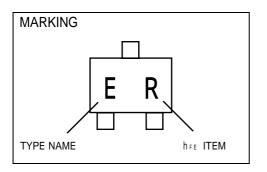
Excellent linearity of DC forward current gain

Low collecter to emitter saturation voltage

VCE(sat)=0.3V max (@IC=30mA,IB=1.5mA)

APPLICATION

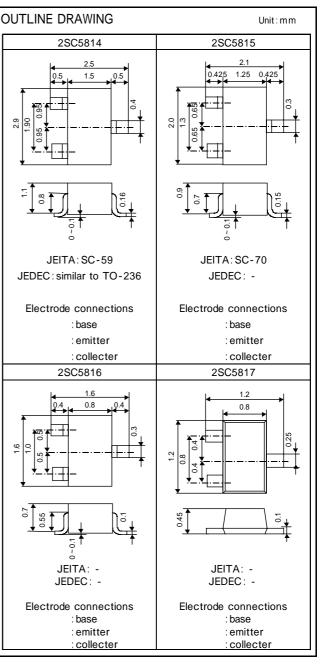
For hybrid IC , small type machine low frequency voltage amplify application



MAXIMUM RATINGS (Ta=25)

SYMBOL	PARAMETER	RATINGS				UNIT
		2SC5814	2SC5815	2SC5816	2SC5817	UNIT
V _{CBO}	Collector to Base voltage	60			V	
V_{EBO}	Emitter to Base voltage	6		V		
V _{CEO}	Collector to Emitter voltage	60		V		
Ι _c	Collector current	125		mA		
Pc	Collector dissipation	1	50	125	100	mW
Tj	Junction temperature	+ 125				
T _{stg}	Storage temperature	-55 ~ + 125				

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SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	ONIT
V _{(BR)CEO}	C to E break down voltage	I _c =100uA , R _{BE} =	60			V
I _{CBO}	Collector cut off current	V_{CB} =60V , I _E =0mA			0.5	μA
Ево	Emitter cut off current	V _{EB} =4V , I c=0mA			0.5	μA
hfe *	DC forward current gain	Vce=6V , Ic=1mA	120		560	-
h f e	DC forward current gain	Vce=6V , Ic=0.1mA	70			-
V _{CE(sat)}	C to E saturation voltage	Ic=30mA , I _B =1.5mA			0.3	V
f⊤	Gain band width product	Vce=6V , Ie=-10mA		200		MHz
Cob	Collector output capacitance	Vcb=6V , Ie=0mA , f=1MHz		1.5		pF

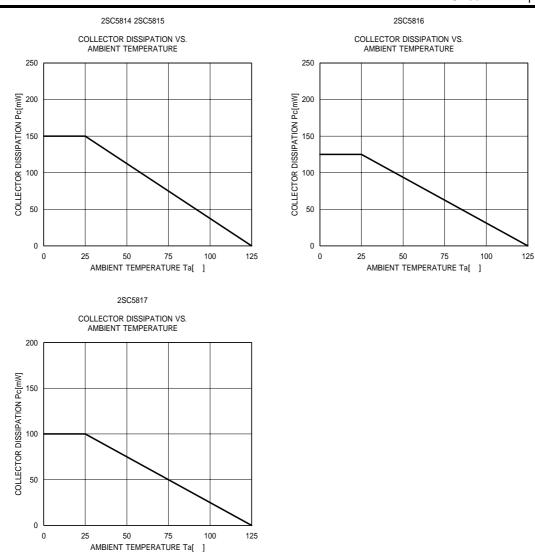
* It shows h_{FE} classification in right table.

Item	Q	R	S
h _{F E}	120 ~ 270	180 ~ 390	270 ~ 560
Marking	EQ	ER	ES

Item	E	F	
h _{F E}	150 ~ 300	250 ~ 500	
Marking	EE	EF	

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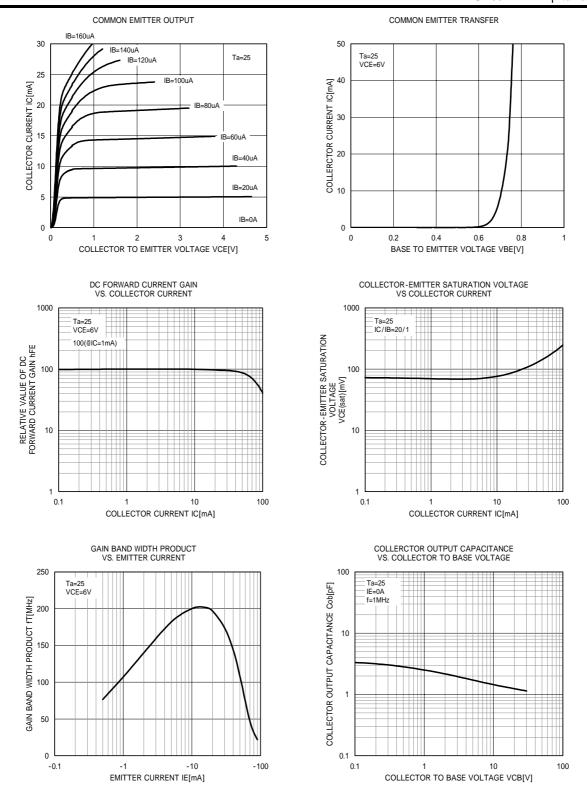
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ISAHAYA ELECTRONICS CORPORATION



Marketing division, Marketing planning department

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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