2SC3928

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

2SC3928 is a super mini package resin sealed silicon NPN epitaxial transistor,

It is designed for low frequency voltage application.

FEATURE

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Small collector to emitter saturation voltage.

VCE(sat)=0.3V max

•Excellent linearity of DC forward gain.

•Super mini package for easy mounting

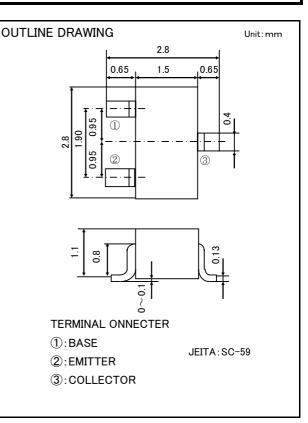
APPLICATION

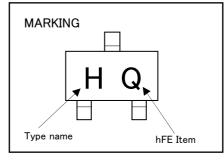
For Hybrid IC, small type machine low frequency voltage Amplify application.

MAXIMUM RATINGS(Ta=25°C)

Symbol	Parameter	Ratings	Unit
V _{CBO}	Collector to Base voltage	50	V
V _{CEO}	Collector to Emitter voltage	50	V
V _{EBO}	Emitter to Base voltage	6	V
Ι _c	Collector current	100	mA
Pc	Collector dissipation	200	mW
Tj	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)





Parameter	Symbol	Test conditions	Limits			Unit	
Farameter	Symbol Test conditions		Min	Тур	Max	Onit	
C to E break down voltage V		$I_{c}=100 \mu \text{A}$,R $_{BE}=\infty$	50	-	-	V	
Collector cut off current	ІСВО	V _{CB} =50V, I _E =0mA		-	0.5	μA	
Emitter cut off current	IEBO	V _{EB} =4V, I _C =0mA			0.5	μA	
DC forward current gain	hFE	V _{ce} =6V, I _c =1mA		(※)	560		
DC forward current gain	hFE	V _{ce} =6V, I _c =0.1mA		Ι	-		
C to E Saturation Vlotage	VCE(sat)	I _c =30mA ,I _B =1.5mA		-	0.3	V	
Gain bandwidth product	fT	V _{CE} =6V, I _E =-10mA	-	200	-	MHz	
Collector output capacitance	Cob	V _{CB} =6V, I _E =0mA,f=1MHz	-	2.0	-	pF	

 $\ensuremath{\mathfrak{K}}$: It shows hFE classification at right table.

Item	Q	R	S	
hFE	120~270	180~390	270~560	



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