2SA1530A

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE(Ultra super mini type)

DESCRIPTION

2SA1530A is a super mini package resin sealed silicon PNP epitaxial transistor,

It is designed for low frequency voltage application.

FEATURE

Small collector to emitter saturation voltage.

VCE(sat)=-0.3Vmax(@Ic=-100mA, IB=-10mA)

- ●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 -60		٧	
V_{CEO}	Collector to Emitter voltage	-50	٧	
V_{EBO}	Emitter to Base voltage	-6	٧	
I o	Collector current	-150	mA	
P _c	Collector dissipation	200	mW	
T _j	Junction temperature	+150	°C	
T_{stg}	Storage temperature	-55 ~ +150	လူ	

JEITA: SC-59 TERMINAL CONNECTER ①: BASE

2:EMITTER
3:COLLECTOR

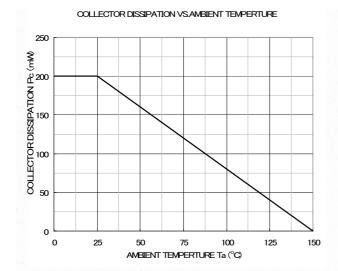
ELECTRICAL CHARACTERISTICS (Ta=25°C)

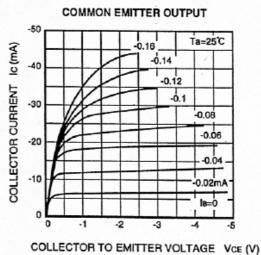
Parameter	Symah al	Symbol Test conditions	Limits			Unit
Parameter	Symbol	Symbol Test conditions		Тур	Max	Unit
C to E break down voltage	V(BR)CEO	$I_{\rm C}$ = -100 μ A , R _{BE} = ∞	-50	-	-	V
Collector cut off current	ICBO	$V_{CB} = -60V$, $I_{E} = 0mA$	-	-	-0.1	μΑ
Emitter cut off current	IEBO	V_{EB} = -4 V , I $_{C}$ = 0mA	-	-	-0.1	μΑ
DC forward current gain	hFE	$V_{CE} = -6V$, $I_{C} = -1mA$	120	-	560	-
DC forward current gain	hFE	$V_{CE} = -6V$, $I_{C} = -0.1$ mA	70	-	-	-
C to E Saturation Vlotage	VCE(sat)	I $_{\text{C}}$ = -100mA , I $_{\text{B}}$ = -10mA	_	-	-0.3	V
Gain bandwidth product	fT	V_{CE} = -6 V , I_{E} = 10mA	-	200	-	MHz
Collector output capacitance	Cob	$V_{CB} = -6V$, $I_{E} = 0$ mA, $f = 1$ MHz	_	4	_	pF
Noise figure	NF	V $_{\text{CE}}$ = -6V , I $_{\text{E}}$ = 0.3mA,f=100Hz,RG=10k Ω	-	_	20	dB

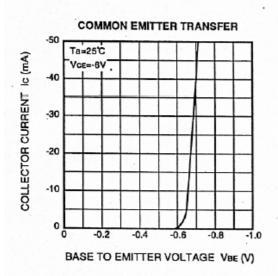
💥) It shows hFE classification in below table.

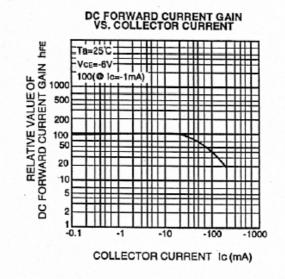
ltem	Q	R	S
hFE Item	120~270	180~390	270~560

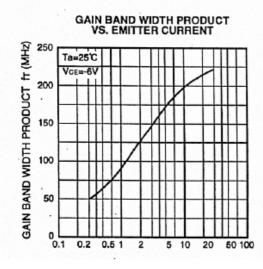
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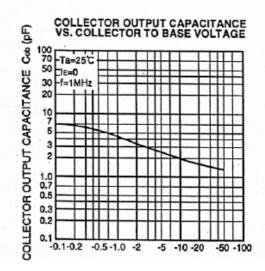




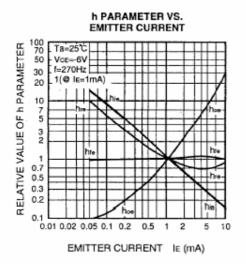


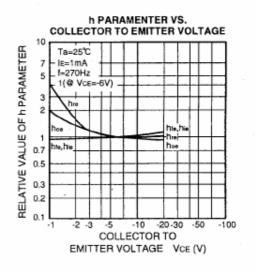






FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE(Super mini type)





COMMON EMITTER h PARAMETER (TYPICAL VALUE)

Symbol	Parameter	Test conditions	Limits	Unit
hie	Closed loop small signal input impedance	Ta=25°C	7.0	kΩ
hre	Open loop small signal reverse voltage amplification factor	VCE=-6V	0.1	X10 ⁻³
hte	Closed loop small signal forward current amplification factor	IE=1mA	250	
hos	Open loop small signal output admittance	f=270Hz	18	μS



Marketing division, Marketing planning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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