

产品规格书

朴雨根	纪春华	朴致均	郑羿	
2018. 03. 28	2018.03.28	2018.03.28	2018.03.28	

规格书更改履历:

序号	更改内容	履历号	更改时间	责任人
1	新规制定	000	2018.03.28	郑羿



Base

1

3

SOT-23

PIN Connection

PNP Silicon Transistor

Emitter

2

Collector

3

Descriptions

General purpose application Switching application

Features

Low Leakage current Low collector saturation voltage enabling low voltage operation Complementary pair with KBT2222AC

Ordering Information

Type NO. Marking Package Code $2F\square$ **KBT2907AC** SOT-23 1 2 Device Code 2 Year & Week Code • Dalian

Absolute maximum ratings

Absolute maximum ratings Ta=25 C							
Characteristic	Symbol	Ratings	Unit				
Collector-Base voltage	V_{CBO}	-60	V				
Collector-Emitter voltage	V _{CEO}	-60	V				
Emitter-base voltage	$\mathrm{V}_{\mathrm{EBO}}$	-5	V				
Collector current	I _C	-0.6	A(DC)				
Conector current	${\rm I_{CP}}^*$	-1.2	A(Pulse)				
Collector dissipation	P_{C}^{**}	350	mW				
Operating Junction temperature range	TJ	-55~150	С				
Storage temperature range	T _{stg}	-55~150	С				

*: Single pulse, tp= $300 \ \mu s$

** : Package mounted on 99.5% alumina 10 8 0.6mm

Electrical Characteristics

Ta=25 C

Lieutrical Characteristics Ta								
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit		
Collector-Base breakdown voltage	BV _{CBO}	I_{C} =-10uA, I_{E} =0	-60	-	-	V		
Collector-Emitter breakdown voltage	BV _{CEO}	I_{C} =-1mA, I_{B} =0	-60	-	-	V		
Emitter-Base breakdown voltage	BV _{EBO}	I_{E} =-10uA, I_{C} =0	-5	-	-	V		
Collector cut-off current	I _{CBO}	V_{CB} =-60V, I_{E} =0	-	-	-20	nA		
Collector cut-off current	I _{CEX}	V_{CE} =-30V, V_{EB} =-0.5V	-	-	-50	nA		
DC current gain	$h_{\rm FE}$	V _{CE} =-10V, I _C =-10mA	100	-	-	-		
Collector-Emitter saturation voltage	V _{CE(sat)}	I _C =-150mA, I _B =-15mA	-	-	-0.4	V		
Transition frequency	\mathbf{f}_{T}	V _{CE} =-5.0V, I _C =-20mA, f=100MHz	200	-	-	MHz		
Collector output capacitance	C _{ob}	V_{CB} =-10V, I_E =0, f=1MHz	-	-	8	pF		
Turn-on time t			-	-	45	ns		
Delay time	t _d	V_{CC} =-30 V_{dc} , I_{C} =-150m A_{dc} , I_{B1} =-15m A_{dc}	-	-	10	ns		
Rise time	t _r		-	-	40	ns		
Turn-off time	t _{off}		-	-	100	ns		
Storage time	t _s	V_{CC} =-6.0 V_{dc} , I_{C} =-150m A_{dc} , I_{B1} = I_{B2} =-15m A_{dc}	-	-	80	ns		
Fall time	t _f		-	-	30	ns		

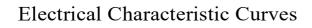
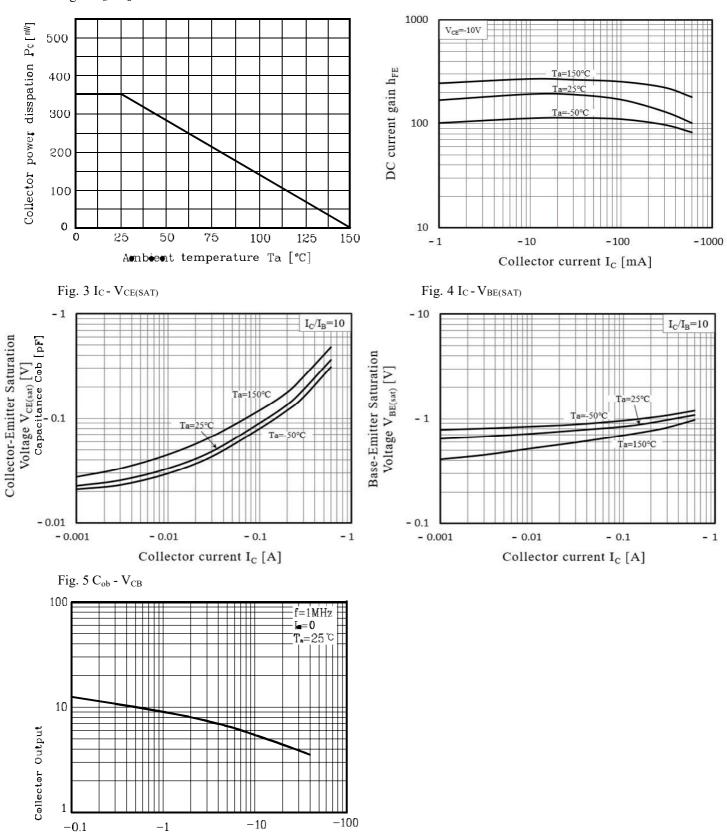


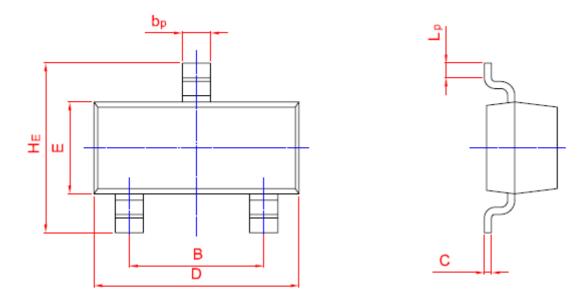


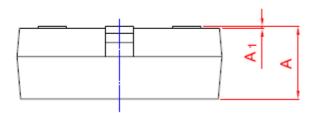
Fig. 2 h_{FE} - I_C



collector-Base Voltage VcB [V]

Outline Dimension





U	NIT	А	В	bp	С	D	E	ΗE	A1	Lp
n	nm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20

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