

产品规格书

批 准	审 核	校 核	编 制
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







Descriptions

- General purpose application
- Switching application

Features

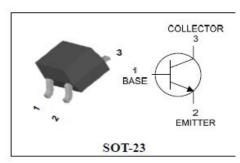
- Low Leakage current
- Low collector saturation voltage enabling low voltage operation
- Complementary pair with KBT2907AC

Ordering Information

Type NO.	Marking	Package Code		
KBT2222AC	<u>1P</u> □ • ① ②	SOT-23		

①Device Code ② Year& Week Code Dalian

PIN Connection



Absolute maximum ratings

Ta=25°C

Characteristic	Characteristic Symbol Rating		Unit				
Collector-Base voltage	Vсво	75	V				
Collector-Emitter voltage	Vceo	40	V				
Emitter-Base voltage	VEBO	5	V				
Callactor august	Ic	0.6	A(DC)				
Collector current	* Icp	1.2	A(Pulse)				
Collector dissipation	** Pc	350	mW				
Junction temperature	Tj	150	${\mathbb C}$				
Storage temperature range	Tstg	-50~150	$^{\circ}$				

[:] Single pulse, tp= 300 μ s

Thermal Characteristics

Characteristic	Symbol	Ratings	Unit
Thermal resistance Junction-Ambient	** Rth(J-A)	357	C/W
Thermal resistance Junction-Case	** Rth(J-C)	200	C/W

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

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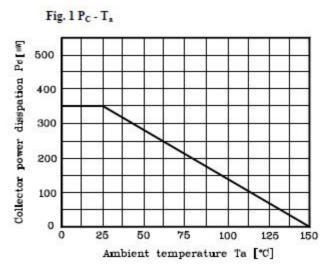
KBT2222AC

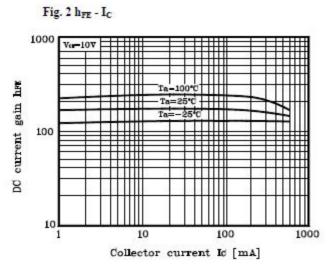
Electrical Characteristics

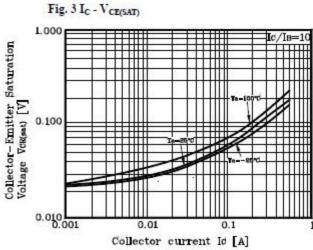
Ta=25 C

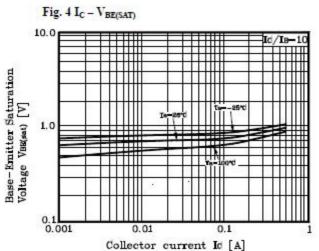
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base breakdown voltage	ВУсво	Ic=10uA, IE=0	75	-	-	V
Collector-Emitter breakdown voltage	BVCEO	Ic=1mA, I _B =0	40	-	-	V
Emitter-Base breakdown voltage	ВVево	IE=10uA, IC=0	5	-	-	V
Collector cut-off current	Ісво	Vcb=75V, IE=0	-	-	20	nA
Collector cut-off current	ICEX	Vce=30V, Veb=0.5V	-	-	50	nA
DC current gain	hfe	Vce=10V, Ic=10mA	100	-	-	-
Collector-Emitter saturation voltage	VCE(sat)	Ic=150mA, I _B =15mA	-	-	0.4	V
Transition frequency	f⊤	V _{CE} =20V, I _C =20mA, f=100MHz	250	-	-	MHz
Collector output capacitance	Cob	VcB=10V, IE=0, f=1MHz	-	-	8	pF
Delay time	t d	Vcc=30Vdc,VBE(off)=0.5Vdc, Ic=150mAdc, IB1=15mAdc	-	-	10	ns
Rise time	tr	10-130mAdd, 161-13mAdd	-	-	25	ns
Storage time	ts	Vcc=30Vdc, Ic=150mAdc, IB1=IB2=15mAdc	-	-	225	ns
Fall Time	Tf	191-197-13IIIVac	-	-	60	ns

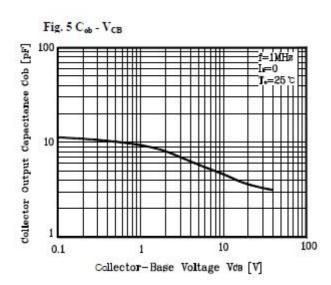
Electrical Characteristic Curves





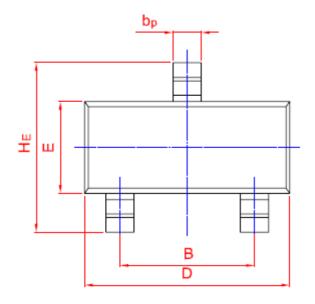


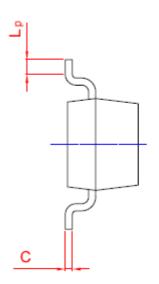


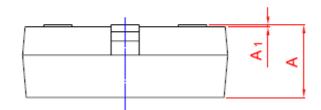


KBT2222AC

Outline Dimension (Unit: mm)







UNIT	Α	В	bр	С	D	E	HE	A1	Lp
mm	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	

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